

International Abstract of Surgery

SUPPLEMENTARY TO

Surgery Gynecology and Obstetrics

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Volume VXXVI
January to June 1923

THE SURGICAL PUBLISHING COMPANY OF CHICAGO

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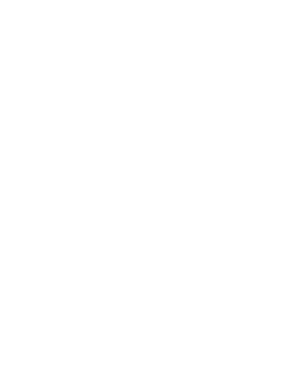
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INTERNATIONAL ABSTRACT OF SURGERY

TANUARY 1923

COLLECTIVE REVIEW

PLASTIC AND RECONSTRUCTION SURGERY OF THE FACE

BY ROBERT II IVY MID FACS PRILADELPHIA

ECENT progress in the repair of deformaties of the hard and soft tusses of the face is due largely to experience gained from the treatment of mutilations of these parts ac quired during the World War. The immense amount of clinical material provided opportunitles for the thorough testing of already established methods and standardized the application of definite procedures to particular classes of cases In addition, certain important modifications and improvements over old methods were worked out Since the war the benefit of this expensence is being reflected in the treatment of facual deformaties occurring in civilian life. In a previous review (22) the writer covered the available literature on war injuries of the face and jaws, gi ing an extensive hibbography. In the present article attention will be called to some of the most important recent ad ances

CONGENITAL DEFORMITIES

In the last few years several alusble coninbutions have been made on harelip and cleft palate. The recent outstanding papers on this subject are those by J E Thompson and V lean and his collaborators Thumpson (18) states that the principles of treatment of cleft palate are founded on accurate knowledge of the anatomy of the deformity in other words, on a correct estimate of the degree of distortion. In regard to complete unilateral cleft palete and harelip, he concludes

I if embryonic union fails, the resulting de-

formity seen at birth can be accounted for in every detail by the muscular action of the tongue

2 There is little or no senaration from one another of the posterior ends of the maxille, and any movement here is in the nature of a hinge movement by which the posterior end of the manila and the vertical plate of the palate bone swing on their attachments to the pterygoid processes of the sphenoid

3 The side to which the premarilla and the septum are attached (the larger side) is more affected by the tongue thrust than the other maxilla, the result being that its anterior end suings outward and forward, taking with it the septum and nose and carrying the alveolar border to a plane far outside and in front of its normal position and further the attachment of the acptum to the polatal plate has enabled it to with stand the vertical thrust of the tongue and to retain a reasonably good horizontal pontion

4 The other marills (the smaller side) is displaced as a whole very slightly in a lateral direction, but its horizontal palatal plate is seriously deformed, being frequently thrust upward into a vertical position against the turbinate bone

Thompson employs the usual Langenbeck lateral incisions, and achieves approximation of the two sides of the soft palate without tension by dividing the levator palati and pulatopharyn gens muscles from the nasal aspect. The paper sets forth very clearly the author's rules for under taking repair in two, three, or four stages.

During 1921 and 1922 Victor Veau, of Parls, was responsible for a series of remarkable papers dealing with harehp and cleft palate. For uni lateral harelip (43 46) he employs Jalaguier's modification of the Mirault operation, a method

which has not the wide recogn tion it mur to an ! produces far better results thin the usual can ed or angular freshering of each cilge of the clest Veau and Lascombe (50 44) us ha aliable paper on the operative treatment of double harelip In his work on cleft palitie Vesti 4 45 begins with a critical review f eights ine cases operated on by the classical Langen beek Trebt procedure and hows that this method does not yield the uniformly good anatomical r sult and more particularly the good function of results t be expected of a satisfactory method The outcome in the eights nine cases wa follow pert in observations

Complet closure 48 pc ccat Partia smoon 35 per cent Complete feature 5 per cent de essi observations Complete closure 74 per crut Partial sauon per rent Complete failure 6 per cent Filect on speech phonerucans ratherasement 2 has con-Improvement by education, 3 per cent to supers casent, 60 per cent

These rather discouraging result ked Veau to investigate the surpost anatomy of left polate with a view to discovering if possible the causes of failure and a basis for the introduction of new operati e principles. His studies (48) show that in infants with cleft palate there is no failu of development of the muscles of the soft palate and it is not until later a the result of double that atrophy occurs. To be useful, a soft list most be mobile and long The majority of soft paletes that have been operated on ar rigid and short Section of the muscles of the soft palate is the chief cause of immobility. Cicatricial onfraction due to the production of a large ra maral aspect is the chief cause of shortening Year (49) believes he has succeeded in part at least, in ot ercoming these ta great hindrances to success in the classical operation. In order t approximate the edges of the soft palate cleft without tension be does not resort to section of the levator palati and palatopharyngeus muscles but after separating the aponeurous of the tensor palati from the posterior edge of the hard palat and dividing the tendon of this muscle through a small incision over the humal r process, he holds the two hal es of the soft palate together by a horizontal suture wire passed through the muscle substance from side to sale. The wire does not perforate the mucous membrane, which would not tolerate t well, but its two cooks are twisted and

omerge through one of the himi roats ware never tears in the nuncle and privile comes tension at the same timepus before ment of the soft palate. Avorishment american face is more difficult. Instead of heavy firm. mucosa, where it is attached to the po career of the hard palate, as is manly due to los ering and approximation of the two same orten! daps separated from the bose, landraises the mucosa of the floor of the sor and that on the oral side near the eige of tied a around the posterior edge of the baid pair t. obtaining two mucous layers (spec and let for closing the cleft. The most summer seclastic and can often be drawn ready around cleft to be sutured to that of the opposit ra The nased layer is sutured first and the reimportant as it avoids a raw neal sector 3 accumulation of infective secretions. The b oral mucosa is sutured in a separate hyer Can plete closure of this layer is not always parl's but this is not so important, as grandhouse the oral surface do not cause so much during those on the nasal side. Vosus paper sixis rend before the Paris Surgical Society products lively discussion by Janaguier (13), lives (1 Ombredanne (19) and others Ombredan states that rigidity of the soft palite after are tion as due partly to infection from the tors at partly to an interstitud ocatricul contractor & finds that spirometric exercises are my relate preventing regulity of the palate made al employs them whenever the patient is of I more commencing about three weeks after the open

Ombredanne (30) corrects deformity of the nostril in harelip cases by removing a small trangular wedge of skin and cartilege from the

anterior edge of the name opening Coughlin (12) reports successful closure of a ery and congenital cheft of the hard palite by menns of a pediclod flap of skin from the chest and which a piece of costal cartilings cut to fit the opening had been embedded previously

Among other noteworthy contributors to the subject of deft paint and harelip are Da is (1) Refleck (4) Brown (6) and Moorehead (16).

ACQUIRED DEFFCTS

The introduction by Gillier (19) of the mbed perlicle marie possible the transfer of skin fleps for a greater distance and of larger size, thus polting within the range of surgical repair deforms ties hitherto regarded as looperable. Blair (s) achies es the same results by the delayed transfer

That the chance of success of a flap is increased or a longer flap can be raised, or the flap can be cut narrower and thanner with equal chance of success if it is first completely raised and then immediately satured back into its original bed and the transfer to the new postion delayed for a nerved unning from six days to two weeks.

for a period ranging from six days to two weeks

That if a flap alongha in its original bed, the
extent of the area lost will be considerably less

than if thad been immediately transplanted.

3. That if a flap will not survive, it is an advantage to have this fact demonstrated before removal of the scar and freshening of the edges of the defect.

4 That provinon for a possible partial loss can usually be made in the planning of the flap

5. That a blood clot under a flap which has been satured back into place may be fatal to the flap. The formation of such a clot can be prevented by moderate pressure of the dressure, and

the use, for twenty-four hours, of multiple drams In many cases of very large defects Dufourmentel (15, 16 17) Schileau (35) and Moure (27) have made use of very long bands of skin with pedicles at each end assuring adequate vascubrustion and innervation for reconstructing the entire upper hip, a complete band of skin is removed from the neck, but left attached at each end and carried up over the chin and lower lip This is preferred to taking half of the new hip from the right and half from the left. Later the mucous surface is supplied by a second bipedicled band of mucous membrane from the lower lip In other cases the bipedicled skin flap is taken from the scalp, the pedicles being in the temporal region. The hair of the scalp replaces the beard and mustache and hides the operative scars

PREE CKIN GRAFTS

In reconstruction surgery of the face two types of free slam transplants are employed Thiersch-Esser o epidermic graft and the Wolfe or full thickness graft. Esser and later Waldron. Pickerill and Gillies (10) adapted the Thiersch graft for replacing mucous membrane lining cavities (the mouth, nose, eyelids, etc.) with skin, the thin skin shaving being temporarily supported on a mold of dental unpression compound. Ferms Smith (36) has utilized this method even for relining the antrum of Highmore after removal of the diseased mucous membrane. The Wolfe graft is particularly useful for covering the secondary detect produced by remo al of a pedicled flap for instance, to replace skin of the forehead which has been employed to reconstruct the nose. The Wolfe graft can be taken from some distant part

of the body such as the abdomen. It should include the full thickness of the skin, but all subcutaneous fat should be carefully removed. Ferris Smith (50) disputes the soundness of the samest universal practure of cutting full-thickness grafts larger than the size of the area to be covered in his opinion such a graft should be cutexactly to pattern, sutured accurately and main tained with a light, even pressure. Keller and Parce (21) support their full thickness grafts by means of destal impression compound, as in the Esser method.

Practically all of the modern principles of surgical reconstruction of the face are evemphifed in an article by Blair (3) which is very clearly illustrated by photographs and diagrams. Although this article is devoted to the repair of war injuries, it contains a wealth of maternal of great value to the plastic surgeon in the correction of deformaties seen in ovil practice.

ATRESIA OF THE BUCCAL ORDICE

Atresia of the buccal onfice may be congenital or a sequel of lupus, noma, syphilis, or epitheli oma, but most frequently is the result of burns of the face Rouget (14) observes that if it is marked it may prevent the introduction of solid food. interfere with mastication and speech, and render impossible the insertion of an artificial denture to replace lost teeth. The treatment varies with the nature and extent of the lesson. In minor cases, sumple section of a band of scar tissue may suffice Others are benefited by special stretching apporatus. In pronounced cases with the presence of a considerable amount of scar tissue, operation is indicated. The most is orable results are given by the procedure of Diffenbach or its modifica tion by Ombrédanne. In Diffenhach a operation a small quadrilateral flap is removed from each corner of the constructed mouth opening. This flap is restricted to the skin and subcutaneous turne, not including the inner mucous membrane, and externally its upper and lower borders almost meet. The amount of entaneous tusue removed depends on the amount of enlargement desired After the cutting of the flap the underlying mucous membrane is divided horizontally so as to basect the denuded area, and at the outer end of this horizontal incision an incision is made per pendicular to the first but slightly convex medially These incisions form three small mucous flaps, an upper a lower and an external flap The upper and lower flaps are sutured to the corresponding akin margins and the external flap is brought out to form the commissure. When mucous membrane is not available for the com

in the Order at on the plane by least gibe to far attacholation or er in 1 fel git wit rate e ert in ite helmales part of the late tax t ir) in it it that (1 - 14 to v) are her permeth front in the new to be the permeth front in the ment to the her the her permethal the ment to be a first permethal t molece that er exertn the line who a least the ta idnochite will be gas tirl it total to of what a most to ale se rali tili). Ilikesila li tille titli freedrikiglinsen les il i millit i menje tianont in Ind un letrem ther at opin ea l if rem rate lotar liberan r I man merelle rate at the su con learn to the

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depends the necessity for supplying any or all of these three. Most writers now agree that skin from the forehead (Indian method) is greatly superior to that from the arm (Italian method) to supply the covering of the nose. According to Smith (16) the Italian method, which consists in fashioning a pedicle on the arm and transferring it later to the nose with the arm mamobilized on the head until the new blood supply is established has nothing to recommend it for facial repair and much to condemn it. The position is torture to the patient, there is danger of emboli in the super ficial vers of the arm, infection readily occurs from contact with the nose, and dressings are difficult. The supporters of the method can claum only that it prevents scarring of the forehead This is offset by the fact that the texture of the skin is such that its contrast with that of the face and scalp is very marked. If forehead akin is not available, these skin should be supplied by the use of Gillies' tubed pedicle. Blair (a) also states that the most dependable tissue for covering the nose and one which can be used also for humr is the skin and subcutaneous turne of the forehead The forehead defect can be immediately filled in with a full-thickness skin graft from the abdomen, and when this is excefully done, the repair will be only slightly poticeable. The arm skin transplanted by the Italian method, and skin from the chest or the abdomen transplanted by a nump flap do not conform as well in appearance to the normal nasal skin. Small or even quite large faps can be made from the cheeks, but with less accuracy than from the forehead and the defect is more noticeable a columella, however can be made quite well from the upper lip. For replacing lost arricous membrane Gillies (19) suggested covering the under-surface of the forehead flap with a Thiersch graft supported on dental impression compound Blair (4) finds that such graits subsequently undergo contraction so great as to demand relining of the nose. He and most other workers rely for this purpose on pedicled flaps of skin from the edges of the defect or the forehead

There is considerable divergence of opinion as to the best material for the supporting framework of the nose. A few years ago New alto casted the use of celluloid Teck. (39) employs the middle turbante removed from the same patient, de naded of its nucous membrane, and subjected to streination in normal saline at 143 degrees F for I ur minutes. The majority of surgeons compley costal garding or on a combination of both. Cohen (10) says that cartulage grafts slows here from nunon with bose and are therefore

never firmly fixed on the nose and are always absorbed to a greater or less degree Bone grafts from the anterior border of the tibia have also failed in several of Cohen's cases. He finds the ideal substance in this work to be a graft composed partly of bone and partly of cartilage, taken from the seventh or eachth rib. The bony part of the graft is placed above in contact with the frontal and nasal bones, while the cartilage builds out the lower portion of the bridge Carter (o) also uses a section of the eighth or ninth rib and costal cartilage, preserving the periosteum on the outer surface. He shows cases of union of the rib and frontal bone several years after operation. That cartilage is absorbed in the tusties is contrary to the observations of Gillies (19) Blair (a) and Smith (16) Blam says The general observation is that transplanted hope without normal function does not survive, and in at least two cases of nb transplant for rhmonlasty that have come under my observation two years later the bone has been completely or almost completely absorbed. On the other hand, my observation is that where perichondrium remains in contact with two-thirds of its circumference, the cartilage will persist. We have one case in which the transplanted cartilage has remained unchanged four In this connection Smith (36) states

Free plants of bone with or without periositeum into the soft tissues are slowly absorbed. Cartilage has no blood versels and lives easily by lymph absorption with or without its perichondrium. If probably grows when its perichondrium remains attached. Cartilage is readily modeled to meet any requirements. Cartilage does not unite with bone, but is held in position by fibrous adhenous It is the ideal supporting substance. The writer of this review agrees with Cilles, Blair and Smith as it the superiority and permanency of covial cartilage as compared with other supporting substances in rhimolalasty.

BOYE GRAFTS

Delagender, the originator of the osteoperioted parts, give a comprehensive account of the advantages, indications, and technique in a recent article (12). He states that the object of the osteoperioted graft in to formula all the elements in occasiny for boxe formation to any part of the oscous system where these elements are deficient or completely absent. Proportly speaking there fore, it as not a question of a lone graft, but only a graft of the formation of a part of a boxe or of an entire boxe. Thus, in spite of Albees statements to the contrary any part of the sketchen can be reconstructed.

IVY PLASTIC AND RECONSTRUCTION SURGERY OF THE FACE

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ABSTRACTS OF CURRENT LITERATURE

GENERAL SURGERY-SURGICAL TECHNIQUE

OPERATIVE SURGERY AND TECHNIQUE

Abadie and Argand Crushing Operations in Gestro-Intentinal Surjecy; Experimental Research (Discression on durarys patre attenual reduction explanentales) Bull Acad d soft Par a turnul of

In experiments on dogs the those found that, far from causing necrobious, crushing methods seem t stimulate multiplication of cells so that the denuded parts are covered more quickly than when simile settings as well as the covered more quickly than when simile settings as well as the covered more quickly than when simile settings as well as the covered more quickly than when simile settings are covered more quickly than when simile settings are covered more quickly than the covered more covere

The objection that the dead tissue produced disturbs examination was not supported by the invertigations. Neither was it found that the procedure favored infection.

The experimental ork comprised () sature of the sectioned stomach without creating () satures of the stomach over the Mis creation () Misyo crusting of the duodenum with omental plastics (d) experiments with the Martel crushes and (s) creating of the intestine with ligation and a baned power-time stuttor.

When crushing was done consolidation resulted the end of five days with the exception of helling of the moness the micross was healed: twelf days. Chrome catgut show was ledd for rutning Ligation of the intesting ever the crushed participation of the intesting ever the crushed participation of the intesting over the pursetting buried sature has no more white than the ordinary source and the contract of the interest of the contract of the cont

Is the without opinion the Martel technique gives more uniform and quicker results than the Mayor technique of suturing o et the crasher. If the Mayor method is employed a superficial row of entures should be placed over the crushed part before the barred row.

3. V. Barrya.

AN ASTHESIA

Levine, E. G. and Segall, H. N. Post Transfusion Reactions Alterations in the Blood After Ether Amesthesis and After Blood Transfusion. Surf Greet & Olet. 922 EXEV 3 3

In spat of pratransfusion tests to determine the compatibility of the dottor's and recipent a bloods, nost transfusion reactions continue t occur.

The authors report three cases which show that long operation under ether ansathesia alters the hemo aggiutum properties of the patient's scrain I such cases the blood serum withdrawa smile duriely after the operation had a punkah timer and aggiutinated the donor's corpurcies. This change desappeared during the first twenty-four hours signs the operation, at bout the time of the patient's recovery from the effects of the other assertions. The submostificities of the

Lipods liberated from the treates and takes up by the blood. When the inpuds are exercise from the blood, the serum behaves as before operation.

The organic products of surgical shock which may temporarily after the hemo aggintums

3 The other present in the Bood. This stroots as is imported by the position tings in the serim does to hismolysis of the red blood cells which is probably caused by the other. Orde suggests that other as a lipost solvent alters the collocal state of the Bood and thus affects the homosographism and hismolysis phonomena which are the collocal states. Supporting this thecom is fluenced to describe the collocal state of the collocal state of the blood of the collocal state of the Bood of the collocal state of the Bood.

To postoperato transfesion after probaged annesthesis the authors believ it a essential to match the patient's serious with the doors' ard calls and was were after operation, even ben they he a been natched previously. The sample of blood erum from the patient must not be taken before the end of its enty four boun. The necessitate power of the call of its enty four boun. The necessitate power is not be taken before the end of its enty four bound. The necessitate power is not because the property of the necessary that the nation saw to be benefited with dis-

the interval the patient may be be one or saline injections

I the treatment of various diseases methods transfusions from given doors to a given receiped may cause the development to the blood of the latter of spende against mess and hemodysus against the demonst calls which are not present originally cases have been known. In his post-transfusion reaction followed as second or subrequent transfusion when the blood had been matched and there had been no reaction following the first transfusion for the contract of the subred had been to reaction following the first transfusion for the contract of the subred has a gain transfusion of hemoly lice.

It is important to know whether the reaction is smootated with any change in the group of the recipient. Steams Tortunes, and Terry conclused from review of slot transferons that subsequent donations of blood by given donor to given recipient tend to increase the frequency of reaction in direct proportion to the number of the transferons, and the trepetted transferons in given recipient tend to increase the donors to given recipient tend to increase the frequency if reaction in the recipient Mediant

Steams, Fortune and Ferry found that donors differed considerably in their tendency to produce re-

rtions
A post-transformon reaction suggests anaphylactic
shock. The first transform induces the hyper
smoothing of the recipient's serum against the

sonor cens.

Robertson and Rous tate that in cases of repeated transfusion it is necessary to test for auto-agglutina too in the recipient blood. They point out also that serum separated at 37 degrees C contains more aggletions than that separated at room tempera.

ture, whereas agglutination is more marked at room

temperature. The authors conclude that the compatibility of the recipient and dimore bloods must be determined prior to every transfusion that to transfusion should be done utilin tearly four hours of prolonged either anisational even when the form the proper of the state of th

SURGERY OF THE HEAD AND NECK

HEAD

Walker F I. The Surgical Amstomy of the Superior Segittal Samus (Zur charargachen Anatome des Saxes segutals superior). News Chr. Arch 9 3, 1, 6

Three venous sauses of the dorn mater are of impal importance the sayital, accretions and transvene impact. The sayital such which is located in the facilitoring process has been it deed the least. This more in generally transplars and recens the upper cerebral wens. It because of the cases the upper cerebral wens to become of the cases the case of the cases the case of the cases the case of the cases and the case and the case of the cases are the cases of the cases of

In rare cases the sagittal smus is entirely absent (Portal, Veuret) More frequently it is split int t parts by a partition (Knott, Vieg d'Amr Thesla)

The parcheoling granelations of the signtial most have often been studied. The question regarding the pathologic or normal origin of these structures has been asset evident in many we, but T lard (8₀) was the first to advance the new generally recognized the structures are normal. The subort own investigations were based on one opening of the negatial sous noblannel from male systems of the negatial sous noblannel from male support of the subort of the subor

tal same of it lacenze ere studied and measured Reparalises of the varations in the findings, its name types of the augittal sames are afternamed () the simple type with straight outlines and seakly de cloped lacenze and () the lacense type with markedly undergo lacenze. The lacenze resully vary markedly undergo lacenze to an according to make the season of the lacenze to the season of the name of the season of the lacenze to the season of name to the season of the season of the season of the lacenze to the season of the season of the season of the lacenze to the season of the season of the season of the lacenze to the season of the season of the season of the lacenze to the season of the season of the season of the lacenze to the season of the season of the season of the lacenze to the season of the season of the season of the lacenze to the season of the season of the season of the season of the lacenze to the season of the

The external architecture of the skull and the age of the subject exert an influence upo the tracture of the aspital sums. The sumple straight type is found in dobelocephalic skulls, herees the wind mg, laccinar type of sums is observed more fre-

quently in brach) cephalic skulls. At sensity there is confinence of the small lacunar, and the older the person the more pronounced are the parchion in granulations.

The anatomical relations described are of clinical importance. I junes of the signtist sums are not so rar as is generally believed In 90 Luys described fonty one case. The author reports a case of same supry in the St. P teriburg Obrachoff Hospital on this service of Grekow. The patient was man 63 years old who was operated upon for a server injury if the kull. The humorrhage from the myarrid signtial issues as arrested by packing in general, such myares in dolchocorphalics and young persons are less dangerous than in brachy come up for consideration also in trephining operations on the relationships come up for consideration also in trephining operations on the little states of the same consistent with the same consistent was a server of the same consistent of the same consistent was a server of the same consistent of the same consistent was a server of the same consistent with the same consistent was a server of the same consistent with the same consistent was a server of the same consistent with the same consistent was a server of the same consistent with the same consistent was a server of the same consistent with the same consistent was a server of the same consistent with the same consistent was a server of the same consistent with the same consistent was a server of the same consistent with the same consistent was a server of the same case of the same consistent was a server of the same case of the same

Dandy W.E. An Operation for the Total Extrapation of Turnors in the Carabellopontin Angle: A Preliminary Report. Bell John II pins Bull 9 xxxxx, 344

The most common tumor in the cerebellopontine sagle is an encapsulated modulehoma arming from the leptomesunger. This is being numor. It complete removal esuits in a permanent or a but this mortality of the operation is high. Therefore partial intranspinalir en cleation is to be preferred. The salient features of the urbor's method are as follow.

Bilateral boccapital exposure of th cerebellum is effected with as much exposure of the involved angle as possible. The interior of the growth is removed nth curett The capsule is then picked up w th the forceps and, beginning at the poer and lower poles, carefully dra new ay from the med lla, pons and mid brain. This traction brings int view the several small veins and arteries crossing from the bram stem t the tumor. The vessels are ligated individually with silver clips or fine silk lagatures and divided Gradually the whole tumor is delivered from its bed a thout trauma to the brain stem. The crantal nerves stretched by th peoplesm are beerated as the capsule falls from them H A Mckagent M D

Remobolf J I Occipital Encephylocole Commarks J U o a, les, ario

The author reports a encephalocele as large as a man's firt is a child six weeks old. The swelling occupied the entire fold bet een the neck and the scapular region and compelled the child to hold it head t the left sal. The ne was thin pd tran becent and seemed boot reads t burst an impulse was noted when the child cried \-ray mination showed a split in the posterior processes of the tles

At operation under their anotheria the sac as entirely circumscribed, sufficient. Lin being left t close the opening. The new then dissected to rather subpedicle opened and found t contain the left lobe of the cerebellum. The rebellum turned to the crastal casts the dural abound closed and the bone defect reprared by reflecting to persorteal flaps and suturing one over the other. th catgut. The skin wound a closed with fine silk.

The postorerati ecovery was nevential I ourteen and one half mouths later the child sectored normal except for - rs neck (two) bly due

t involvement of the cervical perves) about it sit up and poor development

WALTER C B REFT M D

Advon, A N Preservation of the Motor Root of the Guerrin Guellon During the Division of the bennory Root for Trifacial Neproleia Surg Cymer & Cout o xxxv 35

The athor describes the tech sque of preserving the motor root hile d to g the sensors root of the greenin graphon buch done the M Chin in mine const. In. ers upor M rub o The drud stages of radical operation ach hemorrhage ocular o les anch mortal t traumatic kernt tie and occasional f unl parabisbeen largely overcome by refinement of tech audue and the se of energy materiment. Numb ness of the face and the margo of the tongue is tall dradys t ge but cannot be overcome but the

patient ho has hid on or t recurrences of true trifaced neuraling to dily accept the numbers in each go for the acrustating pain incident t the discrete

When the motor root is as raiseed paral six of the pterygoids masseter and temporal muscles dist rhe the linema toll the j hen the mouth is opened pr vent good count tion of the teeth on the ide operated upon aid over troph of the muscles and depressions how and below the avgoes 11 th the technique described it is possible t preserv the motor root thout the use of the faradic current thereby preting motor paral as but in ery old person ho has had their teeth removed ad do not intend to use plate there is no object in preserving it.

It is possible to dissect the seasons root from the motor root and drysde i athout injury t the motor root in pproximately the time required to the

ganglion. The motor root as it enters the midile lossa over the petrous portion of the temporal bene through the histo in the dura, is found underseath the sensory root on the mer all ide it engineer in that relation under the root fibers until it pproaches the greenan ganglion body who it makes forth brupt turn and preses obliquely downward and out and underneath the ga serian ganglion through separate sheath of the third branch into which it

differen

The graphon is exposed through an oblique los son of the Liu temporal I son, and temporal ra who made the uniform of the ear and extend ang memoral and back and from the angents for a cm. A triphine opening bout 3 cm. a diameter the ra de in the skull the dura eles ted, the middle measured art or lurated the third branch of the nerve ident ned, and the dissection carried upward and luckward the dura being elerated from the arachaoid hich is attribed to the ganglion until pulsition can be seen by the empelor. The rack old co error the no-terior root fibers is then opened a the smill sharp right angled kade all sensory oot fiber and the outer part of the gas serian grangtion laring well appeal. After bleeding

been controlled the entart holds the illumi ted retractor go thy levating the temporal labor bolling the dura taxt, and exposing the posterior marters of the en series en electrations at the the ses-

HOT' FOOL The small dissecting book is then placed over the sensory root filters on the mestal side as they enter the ganglion and these fil is an retracted gentl in doenward and forward direction the posterior sensors root filters and the nosterior mar gin of the generiti go glion on the mount ade being slightly ele ted. With another book the mustil alle of the sensory root is cament and ek tel by traction downs and and outward reflecient to exnove the motor root I me as separat f sexulat underneath and radependent of the sensory root presenting downward course tow rd the third branch I has to pref rable to following the sector) root fibers aps rd and ms rd t the meanl side of the grassers ganglion. Uter the motor root p brought int sew the ecosors mot is held from the motor mot by hook and the a sory fibers are divided ath knaf

Profant II J. Chronic Supportative Paretitle with Acute I meering tour California State J. M., 918. XI, 301

Wigh the report of a case in which there or its scute attacks of supporting purotitis thin a year the author go es brief eview of the eventuals of the naturns ad physiologs of the paroted gland nd ductions the etology and treatment of supports tn parotitis. On the bases of kis own case and these reported in the literature he dra the following

CONCURSORS Chrome suppurate parotitus th cute exacerbations is rare condition

a An acute ttack is f wored by inactivity of the gland t Susceptibility of the gland to infection is fa

cord by states . The exciting cause is an cute infection oc

curring in the chronic condition The prophylactic treatment is maintenance of active accretion

6. The crive treatment consists in the alternat

local application of heat and cold " Whenever the general symptoms warrant drainage should be established by free incresons

E C ROSTESSA, M D Edberg, E. Consenital Labiopaletine Malforma

tions. Ada chrers Scand o Lin and relate defects occurring abone or - 1th other consental malformations may be inherited

In Edberg' openion it is the duty of physicians to enlighten the lasty as to the manufest familial proparration of certain malformations

In 54 labul and eighty four palatine operation the mortabty was 6 per cent The danger of aspa ration pneumonic from narrous is emphasized and early operation on the lm without anasthesia ecommended to overcome this as ell as the maintion due to the infant unability t nurse satisf ctorils The palate hould be left alone until the child w or 3 jeans of ge. The mortality of early palat operations a high per cent. The uthor has per found eighty four palate dosures in children is g. ing mage fom t. 8 jeans. There ere is de this from pacumons

I operations upon the lip flaps from the nasal eptum and the lateral spect of the pay are utilized t close the nasal opening. As part of the post

operative treatment the lips are exposed to direct suahght for a period each day

In closing the palat the methods of Lane Morrovic and Langenbeck are used. All operations are done in two stages. Since o the author has operated upon t enty seven cases with the Lane Moscovic method. In ameteen bealing occurred by and intention in three, firtula formed in one there was partial copture, and in ne total cupture There was one death in this series

The influence of palatime operations on speech is discouraging, but the affins of air to the nasonha rynarcal cavity becomes ormal and the entrance of food rato the assophary ax is prevented

Fdberg investigations ha brought t light the f et that labsopalatine malformations occur conselerably more often in males (57 pe cent) than in females (43 per cent) I a per cent of the cases the condition as inherited from one of the parents no m 3 7 per cent it was present also in brother or auter I 5 per cent t as combined with other dis abilities or defects. The incidence of the malformations was as follows sumple labest defect 5 per cent simple palatine defect, 5 per cent and combination of the t defect go per cent

A B Alcador Al D

Ochener A. J: The Treatment of Cancer of the Jane, Aus Surr gas laren, 328

Ochsner a experience has convinced him that early and very extensive operation with the cautery followed by carefully planned after-treatment with the A ray or radium is quit worth while in cases of cancer of the jan as occasionally even advanced cases will be permanently cured by this method MORRIS H KARN M D

Tinker M B The End Results of Treatment in Certain forms of Malajnancy of the Neck. Ass Sure 0 2, ltars, 335

In response to circula letter to all members of the American Surposal Association concerning results in the management of various forms of malenancy of the neck, the a ther received data from

thirty eacht surrecons

From the tandpoint of treatment Tinker di rades the cases into three groups () those in high operation is contra indicated such as cases of metastases to the neck from t malla or pharyn geal growths or growths of unknown origin (the roenteen ray or radium hould be used to these) () those in which operation offers a reasonable prospect of cure such as cases of early mahanancy originating in bran hial cleft remnants carotid gland tumors, paroted tumors, dearly cases of Hodgkin's decase and (1) those in which opera tion offers little but the roentgen ray and radium ha e crused improvement and occasionally a cure. vis advanced cases of Hodgkin disease thyroid malignancy and branchial eleft carcinoma

Permanent results depend upon complete extirna tion of all diseased thate and all neurhborne lumphatic glands, block dissection, sharp dissection as opposed t blunt dissection and the use of the actual captery matered of the knife for the ever son of certain growths. A dry field is obtained by control of the main arterial blood supply early in the operation, either by temporary closure 1th a Crite clamp or Halsted and Matas flexible metallic band or by wessel suture. A greater portion of a large essel can be sa ed said therefore more collat eral currelation can be presented by emei suture The uthor has sutured the carotid artery three times — t we for extrated gland tumor and once for branchial cleft malignancy. The patients survived fit cars or longer. All general amortibetics increase blood pressure and the enous once majority of surgeons prefer ther. The author

azetbern 53 cases of Hodglan disease five year cure as obtained a seventeen. Some surgeons have bandoned surgical treatment of this condition The roentgen ray has caused triking improvement in many cases which present to be hopeless

without general

favors local anaesthesia with

I taid cases of carotal gland tumors there ere fi fit year cures and one operative death. The author regards at odd gland tumors—maligna t Radical removal of the growth—ith permanent closure of the arteries gives a good prospect of permit nent cure. Dissection from the circle freme the

followed by recurrence

In sury! see of thyroid plant mign oney there ere fifteren for yet crues of one operatin derth. The M.J. Clinic has had not reported the I recoil. The length of time the discrete has rem and arrecognized or even in supercetal wideling prisming. Operation performed before the timor has trended beyond the care to should prisming to primate record. It cases the attention of high noticy of long stating and I have the more than the prisming that the might be superceived by the stating of the stating to the stating to the stating to the stating the stating to see even and for either transfer meaning the stating to see even a for either transfer management.

I fifte cross of her had cleft malignancy there were three fill yes cures and two operative death. The results depend largely upon the duration and the extent of the growth. I hy operation go expossible prospect of cure and cert in of the sir

greatly hopeless cases ca be cared by the application of radrum.

In 70 cases of parotid gland mulgipaner their

cre theory! Sincy or cure II the growth is within the rapule there is chane for permanen cure and if the crystole is tarrefully followed during extraon the focul nerv may be olded. The utbor be operated upon eight cross without in pury! the facil aero and with permanent own Alter the crystole has been broken the growther trend rapidly and the province; of permanent cure becomes in the fallowing on classics. The author dra. the following on classics.

The end result in certain cases awaily conselected middly mailing it to perhaps not so good as is acare Hy instroyed.

A number I reliable observers has seen per manent approximent follow the use of the rorriger r y and radium

) Certal forms of mulgranes of the neck considered hopeless by some surgeous has been oper tellsmon inhapparently permanent cure by others. Wattra C. Braker M.D.

SURGERY OF THE CHEST

CHEST WALL AND BREAST

Danham, E. K. Infection in the Meditations in F infiniting Cases of Improves hery Guer 6:06st 9 mm 155

Fullmenting case of empt ma are freque to soci left the persandulus or peritoo in. These conditions is often occurred to nearly small abrevial as it suggest that the streptococcus has special prediction for serous membre her. St its strel data lavale on bout 4 cool-meet of our traum to empress tend of short bowever that this are samp too a not correct, the not free packets and the law of the packet of the prices of the prices of direct extension of the infection through the intersal tall toos.

Note extraoso from the perhanochal tusion syncism may hore tow rid the plx a and us we emptyma. In not 1 Il sarrawonable 1 appose that it can it a loom the opposit direction and thosis no dre the hilms mad the mediaturges. If the interess of 1,870 cases of rempensa there as no record showing the recognition of cut model stand altertion dromp if but the condition moved at a necroplane performed is thin foor cells after the emptymen. See recognised.

The thor discresses the historic aid topsy reports in detail aid cites see hich support his conclusions

Bections of the tissues clearly demonstrated the presence of the infecting organisms in the terstitud spaces. I one cruse ith distinct interatural involvement the cultures from the heart blood eraargati. fact sedicating that the presence of the fracteria in the medi stinal tissues is not due t

Attention directed t the folimin ting character of the cases in which an infection of the mechanisal tissues is observed most frequent! The net deare of medi stinuis declars rapidly in the sacressis cells person. Many B Refrina. M.D.

Sorge A Contribution to Our Knewledge of Mediastinal Tumore (Botrag re kenatus der Media tonskumores) Arch f blis Chr.

The thorreports case of very large mechanisms tumor in farmer 33 are of age and discusses the clinical aspect and pathologic nationsy of the cos

dation

A culy diagnosts is rarely made. Most cases come to the clime with the most pronounced symptoms of conspression in the mediatinum. The artations in the condition is railways straking the most see red spaces gives with complete cuphorus following alignit therapsets necessary.

In the creat reported, safety an therapy had transtent pool effect sillowing the Wavermans test was negative. The fact the safety site to the victory necrols which as food i utopsy. If therefore recommends the trust of what he terrap in if nech case. Other treatment as purely symptom tie. The only surport traitment mentally possible ben the tumor assumed in the nature medication in a decompression by Saarstruch longitudinal medication. When the tumor is no the posterior medication must an Endertee mysta suggest 6 per reaching to the

border of the scapulz and ith its base from the

third to the pinth thoracic vertebra, should be

formed to obtain an extrapleural exposure The tumor in the author's case was probably a hophosarcoma originating in the remains of the STEVERS (7) themus

Horralcks, F., A Teratoma of the Anterior Mediastimum (Em Teratom des vorderen Mechantimums) Zuck f Palk o xxv .17

Among teratomata of the anterior mediastinum those of cystic type are more common than th solid teratomata. All consist of fibrous substance and formations resembling skin I those of compleated structure the tissue of all organs may appear sometimes there are also thisues which have undergone malignant degeneration. Such tumors are most common between the twentieth and thirtieth years of are. The chinical symptoms correspond in general to their size. The mortality is

growth on the respiratory and circulatory tracts. Metastases are rare even in cases of the malignant forms Seven of the sexty four known cases are cited and case treated by th uthor is reported in

detail Hoernicke's patient was man 5 years of age In the anterior medicatinum was found court the size of child's fist, a th two ca ities Both cavities contained pulpy masses, and in the larger hair and polypous prohierations from the wall ere present m addition. In a thickened portion of the wall were a few more small costs. The ground substance of the wall was connective besue and con tained smooth muscle fibers, particularly entodermal formations, and transversely structed muscle fibers The cavities ere hined with epithelium of the character of epidermis or mucous membrane epith from A few small cysts contained columnar epithe bum 0 the areas a th polypous development the epathehal covering aboved sebaceous glands, sweat glands and undifferentiated glands. The mus tusue small pacce of cartulage, and mass of undif-ferentiated times were also found. Korwo (Z)

Leavitt, P. H. Tuberculosis of the Breast, with the Report of Ta. Cases. Belies M & S. J. 922

The author go es bruel review of the hierature On the bases of postmortem examinations it is as used that cues of t berculous of the breast show evidence of tuberculous also in the lungs or the abdomen The infection enters the breast through the blood or hamph streams, by direct extension, or through cracked apple. The general appearance of the discret and confluent types is described. A decussion of the differential diagnosis and treat ment is followed by report of the athor's tw cases. The article is summarized as follow

Tuberculous of the breast is one of the rarest forms of tuberculous.

2 The source of the infection is variable

3 A differential diagnosis between cardinoma and tuberculous is often difficult

A Operation gives excellent results. The choice of operation must be based on the type of the infec E. C. ROMPERER, M.D. tion

Bunts, F E The End Results of Operations for Cancer of the Breast, Ass Sare o laxy, 14

For sucressful results the treatment of cancer of th breast like that of any other pathologic conditio

must be strictly individualized The results depend more upon the stage and dis seminatio of the growth when t is presented for

treatment than upon the particular type of operation perf rmed More data regarding the pre-operative and post operative use of the \-ray and radium are required before final conclusions can be drawn, b t there seems to be little doubt of the value of radium

apphed directly in the axilla The a bathtution of the A ray or radium for surmeal treatment cann t be safely considered t

the present time The early removal of the growth remains the one and only are method of treatment

H W McKercur

TRACHEA AND LUNGS

Marschik, H. Trachesi Resection and Tracheo-piesty with Special Consideration of Trans-verse Resection (Urber Trachesirest-tion and Trachesiplestik mit besonderer Berseckschingung der Querrasektson) Honeitsche f Ohren o 1 776

Although dilatation is the method of choice in the treatment f cicatricial stenoses, operation may be rendered necessary by such conditions as ulcers due to pressure difficulty in the introduction f bounce et In cases of stenors due to softening the deheat hysline cartilage of the traches per sages is easily destroyed by pressure from without (trums) or by perichondritis. A condition designated as tracheomalacia then develops a bigh miss the traches f its firmness. When this occurs the tenoms and the majoratory suction of the traches! wall cannot be relieved after the removal of the pressure and the only treatment possible is traches? resection. Partial resection with covering of the resulting defect by plastic operation is best. The prognoms of total or transverse resection is less

rable. As the lung and in f ct all of the thoracic viscers, are hung on the traches as it were, great debacence develops following the transverse resection, and this can be prevented by suture only a th difficulty The uthor method of suturing is as follows

A circular and if possible, submucous seture is inserted. This may be don posteriorly by turn me the tracheal stumps it may be possible also to entere the posterior circumference with catgut from within the knots being placed in the lumen



asperate the sir with the stagnating blood, determines better air embolism will become evident.

The chilcal pectures in cases of air embolism show wife variety. Further at dy. I these complications should be made by means of examinations.

of the eye, facers, and unne

The best treatment is preventive. When an air embolies occurs the operation should be stopped in mechately the patient's head lowered, and the heart action stimulated. Intravenous infections of adrenalm will mercase the amount of blood passing through the brain by decreasing the blood supply in the splanching areas. H. A. McKnorn M.D.

HEART AND VASCULAR SYSTEM

Yon Albertisi, A. Pulling-Rupture of the Heart and its Mechanism (De Zerranguspter des Hersens and the Mechanisms) Frankfuri Tische f Palel 92 xxvii, 185

A girl threw bernell from the third story of a house and duel three days later. Death was attributed to fracture of the pelvis with injury to the intestine Actiony aboved a transverse tear of the endocurdium at the beas of the right anterior polinomary also and hemorrhages in the epicardium and endocardium at the beas of the right annule. Mixtocardium at the beas of the right annule. Mixto-

scoper examination showed an oblique tear in the lowest segment of the pulmonary tube extending to

the cardiac muscle fibers

There are three varieties of rupture of the beart those due to borning, those due t crushing, and those due to poining. The bursting ruptures are caused by as morease in the internal pressure traumatic or spontaneous. The test occurs it be set of the greatest tension of the wall, the highest pressure, and the pressure of secondary or records to correct by the action of secondary or the secondary of the secondar

Allen, D. 8. and Grahrun, E. A. Intracurdiac Surjeny—A New Method Preliminary Report J. Aw. M. Atr. 972, https://doi.org/10.100/ J. Aw. M. Atr. 972, https://doi.org/10.100/

The new surgical procedure for intracardize operations which the thors ha rked out is performed in the following manner

A cardioscope as introduced into the carties of the beart through the heart will add ted int the wall by purestring sutters or lightner through around the point of introduction. In this also cantrols the kemorrhage. It is then manipulated to bring into twee the descript portion of the interior of the trium or the entrule. The blood does not obscure the very. The endocardium can be seen through the cardioscope as clearly as the mucosa of the bladder of seen through the cytotocope.

The cardioscope is a metal tube with one end closed by a planocon ex less. The convex surface of the less is outside and can be applied snugly to

the walls of the heart cavity

A kinfe to cut the all et as carried alongside the tube of the cardioscope. The flat steel handle is held close to the tube by two collars. The bladt of the lainfe as placed at right angles to the handle. The cutting edge faces the leas. The entire blade can be concealed in groove cut across the center of the lens.

Recause of hemorrhage the ventracular root of entry to the mirral valves was chosen at first an opening just sufficient to admit the cardisscope being made through the will of the left ventracle near the per and pursesting placed about the instrument. Because of high pressure and carduar disturbances, however this method was abandoned and the left uncular appendage chosen as the

route of approach

The end of the cardoscope as pushed from the cavity of the left annels onto the ca it yof the left trums the instrument being held so that the valve leafets are in contact with the lens during systole. The land blade is probed into the cavity of the venturel. By fraction on the handle of the knife the the leafet is then brought against the lens, and by further traction the valv. is cut

The end of the cardiocope is then withdrawn from the cavity of the atrium into the cavity of the ppendage. While it is being held there that por too of the auricular ppendage which contains the

end of the cardioscope is ned off and amputated.

Twenty to experiments has a been done through
this approach. There was only one fatality and
this was due to a very easily avoidable fault of
technique.

The d antages of the procedure are that hemor hage is prevented, the circulation is not interrupted, haste is not imperative and the operation can be carried out under the guidance of the eye

HA McKnown, MD

PHARYNX AND OSOPHAGUS

Beck, O The Etfalogy of Retropharynges! Absceece (Zur Etialogie der Retropharyngesiah sceec) Menstische / Ohrenh 9 1 960

The rupture of pus through the tip of the inflamed mastood process into the soft parts of the neck causing condition known as Benold mastoodins is not uncommo. Cause in which the pus penetrates to other sets are less frequent.

The author describes two cases of the latter type. In one, it requires occurred in the floor of the tympanc cavity and in the other in the median wall of the manted process. In both, the gravitation of the passion of

Lathelmen, G. Plantic Repuir of the (Frophagus, Facticularly from the Monach (L. et plant when I at the precedent inches after as den V. Fr. 11 (A. et p. 22)

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Lillenthal, II Carcinoma of the Thorsele (Esoph

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I grad as a the free feature for received and respect to the factor of the first period of the first perio

le frient. Leriall polyte d'ann in re-afrom the monocutaneous border and as a sale pa sof through the operating of the storage of hardred a d lebty milkunes of rat + f through mandader times when ! applied Just abon the apper at turn for the hours. To week later there was some can with heternal pal 1 other thereby. tion of radium withen given. The wat f by severe react on with appears due to proof the left cord which remained permane prior area tithe macon tireon fund more treated a th best projection of the electricity through the wound in the back. Regular irol p er given through the und in the birt. Ydays I to the patient dev kiped drap a to tra ging on tiennit g t s aller An in ment could be a send through an perture e-b broach The p tie t ded from parameter

per ind four months (ter the tritique t. 4. The partitioner et in toon recorded a limitation of the first tribute of the laterage in the trackea a life experience of the laterage about t in abo e the upper in continue looder. A man of gland was four d lee' 1 lee couplings and as there her entire complying and as there her entire complying and as the period of the complying and the laterage and

and free from a 1 lde x tricial bee k. The ther attribute the kind to de meer is 11 considers to the age to a plumple for ble but successful result lege double but successful result lege double has but to many the resection of the enough age made wider than the construction of the enough age made wider than the

Ac I tolib keisen | It to C Desert Min

Helbiere, C. A. Combined Transferral and Transperitornal Resection of the Thanks Unophagus and the Carlin for Larchesta Surf. Cym. C.C. 1, 10, 1

Hellow rectal life these week of the affect of the state for current error of the state of the s

tared t the learnest term of the series of t

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It harrand t a mai

A preliminary nb resection was performed to facilitate exposure and t collapse the lateral chest all so that an exemphageal stoma could be made. At the time of the radical operation the growth was localized in the cardia but extended through the hustre. There were no markedly enlarged glands The incision was extended upward and the pleural ca ity opened widely. The disphragm was then cout radially t the histus and the cardiac end of the stomach and the orsophagus were mobilized up to the root of the left lung. The right agus trunk was separated the left one cut. During these steps of the operation there was no ppreciable change in the pulse or respiration. About 4 cm of the lower grapharus and most of the stomach at the lesser curvature and its poer third at the greater cur vature were resected. The cut end of the croopingus was entered to the depressed skin edges laterally and the sutured stump of the stomach sutured to the skin margins in the midline. The disphragm was sutured th chromic catent and both pleural and pent peal

cavities were closed a thout dramage.

Immediately after the completion of the operation the patient was fully conscious and rational. Most

of the operation was performed under local ansettessa. The pulse was so and of fair quisity. The blood presume did not fall below 110 systolic and 102 diastobe. The considerance was relatively unevenful.

evenium
On the fifth day feeding was begun through the
gastric stoma, and in the fourteenth day a rubber
tube connection between the stooms and through which the pattern with the stooms and through which the pattern will be stoom to the pattern of the pattern o

The pathologic specimen aboved an annular car crooms of the tomach which had inflitrated beneath the immoosi, producing miss measuring in the fixed specimen 9 by 7 by cm. In areas the growth a tended through the serous. It nowled the lower ecophages. A number of lymph nodes showed metastasis. There was a margin of normal tissue

above and below the growth

This is the second reported case of successful combined resection of thic cardia and the thoracid cesophagus the first was reported by Zasajer in ora-

SURGERY OF THE ABDOMEN

ARDOMINAL WALL AND PERSTONEUM

Collett, T. S. Further Notes on Describe of the Umbillens. Surg. Gyact & Oles. 9 xxxx 57 The author report the observations on describe.

The author report th observations on diseases of the ambilious which be has made during the xix years since the publication of his book on this subject.

If quotes Logan a and Miles descriptions of the frequency of tetains in the newhorn among the Chaete high side t the lack of sepain d ring labor and especially of care of the cord and umbilicus.

Granulation tissue a the ambifum the newborn prear as a small, red, purchesharpen mass must unabhacal depression. Histologically the surface of the order to the problem and overed with polymorphomodeur leoney its. The outer layers are resonant or the order to the presence of the order of the order to the order of the order to the order of th

ith astrongent Umblied polyps origin ting in the emphaloimeeatent doct reemble chern secret relating divide flower and are covered to intestinal nucous. The author reported case of umblied polyposated in Vickeld divertication. The polyp was second and the stump of the di criticalium in Aignated in the gut seder pursesting restare. This is spirated stump became congested of partials obstructed in gal language and partials obstructed in gal language.

Goetsch in 9 9 reported case with gastric mu cosa in the tip of a Meckel di erticulum. Cases of an accessory pancreas in the tip of Meckel's diverticalism has a also been reported

The author describes case of Meckel's divertic ulum containing an ordinary pm with its head buried in the wall of the diverticulum near the tip the point of the pm lying free in the lumen. He mentions also two cases of malignant myomata associated with Meckel's diversulum.

Umblical infection is frequently caused by an accumulation of foreign material in the imbulical depression. The treatment consists in dislating the umbulicus curetting a ay the concretion, removing any granulation tiesse, and treating the umblical area in the sam manner as superficial infection.

The author describes a case of tuberculous peritonitis ith tuberculous becess opening at the umbahens

Firsthi has described a chancre of the ambdicus in which spirochetic were obtained. Ryting has reported case of condy long of the umbdicus which disappeared after antisyphilis treatment.

In o o the thor reported blush discoloration at the umbdices as diagnostic sam of ruptured extraterine pregnancy. This would be expected only ben there is free blood in the abdomen and prob-

ably it more pt to be encountered in thin persons Occasionally the blerding axy be slow and persist ent instead of sudden and severe A large quantity of blood may occumulate in the abdomethout causing sign of shock. In such case the umbilicies imbibes the blood of appears blush

Callen has collected nine cases of atheromatous c) t of the umbulcus. These c) ts, hich may reach 3 or more centimeters in diameter are available. pedimendated covered with allan discord, and thus a lied? They have smooth inner studies, are filled with gramous or crumble in terral, and are lined with gramous or crumble in terral, and are lined with signature explained. The nix contents consists of endougher department gradual. The nix contents consists of endougher department gradual. The civil are every moved. In the without signature of the moved in the without spenton small people of alternated when of the mothers and in the resulting of alternated when of the mothers and in the resulting of the studies of the mothers and in the resulting of the studies of the mothers and in the resulting of the studies of the mothers and in the resulting of the studies of the mothers and in the resulting of the studies of the mothers and the studies of the studi

tiried and in time produce in therematous cyst.

Adenomyomat of the umbilious occur only in
omen. These growths are small, but occusionally

Il at the menstrual period and sometimes is as so, ted with slight experiod blood it the period listologically they consist of in trayd storele and fibrous tissue—ith terms mocosa scattered through out the nodule

The author has found one insta ce of a small news or hermingnous of the umbilious and on one or t occasion has noted small pigmented

moles

Mention is milk abo of Caroon case of paylon of the unbiders image from squimous epithelman. The papillary masses are covered by may also established to the second of the caroon of the

A case of large pseudomocanous at of the art

th several small pseudom canous yet t the mbilious is reported

Carrinom of the umblicits in layified () primary mubilisal extension of the symmons cell type of depotationous () scroolist emblished accreament from the terminal particular methods of the strength of the s

Surrouna of the unababus is rare. The author describes are of pertibility government. A ammonto make the characterised by beautiof surrounding akin the defect being replaced by ammon both is reflected from the cladester from the cord. The surrounding belomin 1 after our Dr. and the cord.

....

Umbilical herms a terth is prob bly due to one of three causes or wane ombination of them () stretching of an annotes mbibers () the extress of abdominat contents through patient in billion () that the content is the content of the

In dissecting—testinal loops densely adherent to the walls of an umbideal herman patches of the sac wall may be left on the interaction. These patches should be troumed off like the repair patches so the mass tabe of a buryels tire. Their surfaces are relatedly mooth and to not bleet.

The athor describes to ones of persurtance of

the arachus Walter C Breit MD

GASTRO-INTESTIMAL TRACT

Judd, E. S., and Lyons, J. H. Resection of the Body of th. Stomuch for Ukerr Report of a Series of Cases with End Results. Am Sery, p. 1374, 400

The improvability of distinguishing bet en is greater and carcinom of the stounds shot microscopic examination make some form of removal of the electric states of the stounds of the stou

Attention has been called to the fact that stom him hich sleeve resection has been performed emptices better than one in high 1 shaped et cusoo has been don. For functional reasons Al area commends the removal of sleev, buch a longer on the greater curvature than on the kneer.

on the present of the control of the

Opinion seem t be divided as t the advisability of using akey reservion. Chief among the adverse trustes offered in the probability of hour glass.

onstriction as sequ! Judd and Lyons before that this possibility has been over-emphasized by eral subtons consider sleev reaction the operation of choice and is a reported high percent gr (70-00) of omplet or ery nearl omplet

REN STALED KIN PRIOD FORTEEN EARS

I from ooh t 0 minet sleev resections ere performed in the M. Chiai, one for angions one for lympho-vircom thirty t for excessions, of fifty mx for beingin gastria alter. The operations for uker er performed on thirty seems oracle and superformed.

I to of the thirty two patients with careinoisa it as necessary to reserv the colon to the time of the

skeve resection in one matero-enterostom; as accessary and none priscoptasts. In this group there ere four operative deaths. That's seven per cent of the patients to oursaid the operation and ho have been traced are also and see that seem traced are also and see that years later. The patients deed recurrence sittle heaving the Clause patients in as long situational involvement as a found to the patients are been situative to be a second or the patients are some situations.

As a group the fifty are cases in which resections in continuity were performed because of being member represent serious surgical problems. In this group there are three operatin deaths, and one patient dead after learning the Chine. Four of the fifty say patients were operated on less than one year ago. Of the remaining forty eight, 85 per cent is reported their conditions, and of these to per cent are curred. The versue length of time to the contract of t

I fifteen cases a roonigen ray examination was made at periods anying from on mo the to su years after the operation the st much was then found to be practically normal in shape sure, and nostion

In considering mortality rates, the possibility of gastric cancer in patients behaved to be a gastric ulcer should be borne in mind

PURICATIONS FOR SIFEYE RESECTION

Sects resection as not stutable for all cases, but the a thora behave it can be employed to divantage more often than formerly. The sample \ excession of grains place may result in almost complete reten-The lesson is more pt t be removed thor oughly by sizes resection than by excuson More over in cases of gastine pleer the lesson in the storn act although apparently benign may be malignant and must be removed or destroyed, and in this case the alees resection seems to be the more loncal procedure. When the ker is large indurated, and is the central or cardiac third of the stomach a sleet rejection can be performed with less technical difbruity than excuson and gustro-enterostomy there a less actual operating than any ther procedure and usually the technical teps can be carried out ccurately In none of the Mayo Chinic cases as there necrous of the gastric all or going of the suture line and even when the anastomous

us containe and even when the anastomous
us complicated, there as no interference with
healing
The principal objections t sleeve resection are

that it removes too much of the maffected nature, all, and that it is often followed by contraction, which results in hour great deformaty. If the tumor is realized there can be no objection to walk contract the cases of the lesson but if it is benign, as much good tones to study the preserved as a compatible thought results. For this reason to the less not it employ the procedure for small siders. If the nicer

is large the deformity will often be less following sleeve exection that following excision and matric-enterostomy

TECHNIQUE

The first technical step in the operation converts of separating the lesson from the surrounding true tures After the stomach has been freed, the gastro henetic omentum is dissected away from the lesser curvature for a suffice t space and the gastrocol c omentum separated from the greater curvature The area to be removed is clamped between the large P or clamps Rubber guarded clamps are used t prevent soding from the gastric contents as the segment is cut an) with the cauters clamps are placed on each segment of at mach just beyond the large crushing clamps. The latter are then removed and the to segments possed Tu rows of catgot sutures are used to pproximate the mucous membrane the musculars, and the peritogeal layers, and the anastomous is completed by one row of interrupted silk a tures. The angles at the lesser and greater curvatures ar supported by suturing the several parts of the severed omentum over them

CO CLUMIONS

The uthors conclusions are as follo

In cases of carcinoma of the storn chithe results of siers resection are as satisf ctor; as those of any other form of operation

Seeve resection is sell ruited for certain ukers high on the body of the stomach for large per forated ukers, and f r multiple ulcers. It is the ideal procedure in hour glass stomachs. The danger of hour glass constiction following

sites resectso has been exaggerated

The functional results of this operation are very
satisf ctors

Holzweissig, M. The Formation of Peptic Ulcer in the J Jun m (Ueber peptische Gesch perabidang ma J junum) Zentralid f Ch. gas xiix, 864

For the development of a peptic ident the presence of digestive and gastice proce a securital. If the latter cannot be demonstrated it is not possible to speak of a peptic iden. For this reason the author doubts whether all of the fourteen cases of leasons in the xinity of the ideocect always which were recently collected by Fascher were true cases of peptic iden.

In a case reported in the article by Holtweise, group of pepts uters were found just beneath the pixel decidency jumilist, the perforation of one of them had caused a fetal peritoritist. And was found in the belominal cavity. The gastre juice had it is been neutralized below the papilla of Vater because the latter was octhoded by a stone. The local predaporation of the affected jumila loop was due to the presence of two meantern hymbomata between the production of the collabor.

Carenes, A. Foreign Bodies In the I testines A. Rare Distinentic Freer (F emiliaerper pa Hura on selected [all ones during taken lett we) Sestabel to h 181

20

A boy 17 years old a allow domain One year later be experienced attack f severe num in the nght hypogastrium ith names ordinar nd reten tion of frees. A diagnosis of appendix to trade and see applied to the belomen A the on I too did not improve the nation t referred to the

eather At operation a small here alled off by ad herman wa found in the ileona I region. The ppendix, high a retrocer 1 a not inflamed I rea pointed through the posterior I of the Beam

one from the seocrecal y live only it head remused in the lumen of the gut. The pin was r moved to an arocaelectom w done. The patient was discharged at the miles four ceks

Womerwine (/) Huesti T: Primary Saccome of the I testine (Primarres Darrasarkora) Orrentite (

The thord scarres the pathologic naturn ad the clinical spect of primary sarrows of the intertime in connection with the case his turkes of the sar com to 4 the multiplettace a e of the nkm and four of the rectum by one occurs in the rom part of the latestine with equal frequency rotto f ca cinema t san ma fe zo i Huettl does not onsider I mohovarcoma true sa orna but 1b t hambadeness (Arrier) 1 th group he different to bet een haphorstone and the malianual I mobalistoms (Ridbert). The true arriom to be includes in the other groups the tarround my on somet melanosurcomat gus t celled samon ta and all ed team mate organisme to the mustal tire and connecting the of the intestural II

In the mall i testures and descared region the most common recoma is the round cell arctiona in the colon it is the I might defined successa, while is the rect m it is the mel next on rectal samon ta in the author cases belonged to the group of non reclanote surcom to It is end figult i draw sharp line bet een round celled reoms and I mulaukased arcons 1 striking

fact in limitil cases as that all of the l migh denord fromat metastasized along the lymph ch nucls. The melanos recon t include both ery malignant t more ell benum tumore It may be assumed the the pagment found in the cells is not of uniform one

Im of the patient hose cases are reported ere but een the third and the fifth decades of his and the rest to oder so ears of he There ere t K max mex omes

Surcomat of the duodenum apper in the form of diff se fit filtration bich form compact, and ul tumors Surcomat of the small intest ne mountly crosse distention of the multirated part of the gut. In figetile one we the distriction result from destruction of the muscle element. Lymph identity saturnast buch spring from the submiscon liver and ment the mor musculature of the intesting also se dist tition I more or practice from the inser-

tion of the mesenters and ero, one toward the larger

of the cut caree con inches

The lineal pacture is en diverse 1 pre-oneraine diagnosis is difficult there is nothing ch actemetic in the herion The I equent asso el tien of the condition the tubercade is can be establised by the esumption that a the I mishoul cells of the follower of the intestraal wall form the result of orders of the lymphadenoid symmetry of come may after from any chronic inf mountains collection of lymphocytes

The course f the disease in a bed aded to t ened Dunas the first t ee the oppolish as indef t but in the second tase the turner h rul table. The mobilit of the tamor the bland me ter and the lever are not of much alive in the d enous Recotementum i uncort t The most frequent ample tree integral by a n lion The prognost is and neable

I oper to most may be special only in cases of rectal resona Of the thor four natural there errestell ellowe ball to one and ball tears after the eneration. Of the creek of carriers of the to it and large intestine only once a cured and m the instance the turner as an ileocarcal guart-cell come 1 the others the profition was found to

be moner ble it operation or ecutred a bort time fterw rd

The hopbold and the infiltrati promata are particularly malienant, the proces, it only have not In operation. The picture is similar to the turn il see all resturation of the select for leak mi following true seat improvement the ordition rated becomes one for sub-case libettle recommends trenter notherapy combined ath the administration of arrests 105 LOS TER (Z)

Warmshule, F. C., and Lampert M. A Penetrat ing Wound of the Perineum with Puncture of the I testine J Am M du o lun 804

I boy aged 6 years, shall down the note of the tack out broken pit block handle. The handle penetrated the right perineum bout in from the rectum for dist ace of 6 to 7 in The boy rulled out the handle lay down for n boar and then alled t the farm house I rules the severe abdomin'd pain he wa gi en morphine tid codeine Loon has arm I in the hospital t enty four nules det t, bout eight hours after the account

his temperature o a degrees F his pul # and he responsion 4 lin color as good The alidomen us hard and contracted the rich beside mastic. Complaint was made of cramin and

pass in the lover abdomes On general percurson dulinees as noted catheteneed six pages of tips. normal The rassed, renetrating, stellate permeal a ound did not bleed Proctoscopic examination showed no injury t the rectum Immediat explorators operation

as advised With the patient under ether angesthesis the abdomen was opened in the midline. I laid and intestinal contents escaped. Food and fercal ma ternal were found a soely disseminated. A lacerated wound of the ileum, about 6 in also e the execum. through which intestinal contents were escaping was closed with two layers of inverting sutures intestines ere found covered with exudate and were deeply injected. The penetration of the peritoneal ca ity was discovered t the right of the pelvic pentoneum it did not involve th ureter or prostate

After the abdomes had been freely flushed with salt solution, the abdominal wound was closed around to tube drains reaching to the pelvis Another tube was then inserted through the permeal wound until it came into contact # th the bdominal tubes thus making through and through drainage The permeal tube was fixed in position with a silk worm gut sutur. The operation lasted thirty five mmntes

The patient was go on ontinuous proctoches, kept in Fowler' position dgs en 1 500 units of nist tanus serum. The expirations era kept between ten and twelve by freque t doses of mor phine. There as no postoperative natises or vomit mg Water was given freely by mouth I equently changed, most but pack were applied to the upper abdomen and both sides. After twenty four hours the pulse was 136 and the temperature 014 Both gradually returned t normal On the fourth day the nations had a normal bowel movement

For the first thirty-si bours there was consider able serous cloudy dramage from the pertueal and abdominal tubes. This gradually subsided and the tubes ere removed on the fifth and surth days. The patient made an uneventful recovery and was ducharged in good condition on the six teepth day

In the uthors opinion pain is one of the first and most important airns of injury of the abdom mal contents, ad when there is doubt as to the presence of an intra bdominal injury emploratory operation is advisable. Earl operation will reduce the mortality Through and through dramage is effects. It is mor readily possible in the female Intestinal content soding the acera re best re moved by free value flushing and vacuum spira tion

The athors are sufficient morphia to three or four day to reduce the expirations t it o twel-Water abould be given freel by mouth and proctoclysis and supplemented by intra enous and subcutaneous injections of saline sol tion \ uses ad omiting abould be treated by frequent gastric lav ge Endy blood transfesson is of value

HALTER C BER ET MD

Ptosis of the Proximal Portion of the Palemett A Colon from the Climico-Surgical Standroint (Ptose des promissien Dickdarmabichisties in Minische-charurgischer Hinricht) Verry Chir Arch O# N. 57

A predimention of the proximal portion of the colon to concental variations is due to the late conclusion of its embry nic development. The more common accordary changes of form and position are caused by inflammatory processes. No definite conclusions have been reached regarding the nature of Jackson membra es d the pathological and anatomical elationships Such changes or those originating in another manner lead to a come circle, as inflammatory processes may be both the cause as well as the result of mechanical disturb ances

Ptoses of the colo occurs more frequently in females than in males - the latter include particularly those who are obliged to stand good deal are emagnated, ad subsist on bulky food. In the first stage of the condition there is stasts of the intestinal contents, particularly in the cerum the amptoins consisting of constitution, periodical flatulence and slight prin in the right illuc region. Only in the second stage, when ataxia and dilatation of the carrier to memmosed on the state, does the subject feel really sick. The consupation and pain then become more atense, force the patient to remam in bed for the or three days and are some times associated with suses and vomiting

In the third stage the right half of the transerse colon smks th hepatic flexure becomes angu lated, and the trans eric colon may course partly parallel to the ascending colon. A later the left half also sinks and must then one abruptly to the splenic flexure which remain fixed, nd as the omentum which is dra t th right evert pressure tasis becomes complet in the entire colon up to the descending portion. Slight symptoms of ileus may develop or those suggesting ulcer of the stomach or duodenam

In the differential diagnosis the important fee tures in the complet of only temporary disappear ance of the pain after certain postures, massinge etc. and the beence i characteristic points of pain Because of the inflammatory ch ges the condition may suggest appendicutes but is not identical ith it

The surgical treatment should not be confined to an appendectomy A toilet f the entire right half f the belominal cas to should be undertaken therefor sufficientl long measons must be made Inflamed portions of the omentum must be resected as such an omentum ma) maintam colum even in the absence of adhesion and bands bands and membranes which inhibit peristal is, fix roals of intestine to one another or care kinking of the transverse or ascending colon must also be arroved. The hepatic flexur hould al ay be sought out carefully usually it will be fou d bound by brods of adhesions Occasionally th

taniar are transformed in certam areas t firm bit



healing is complet— nd the wound has been proved tende by bacterological examination—the pertoneal car it; as opened under local guarstiens, the box of replaced, and the wound closed in layers—

CARL R STEDER, M D

Jones, D F and McKittrick, L. S End Results

of Operations for Carcinoms of the Rectum.

Som surgeous belee, that caranoon of the rectum al 14, or nearly al 3, remains localized to the boxel and that therefore an extension operation is no necessary. A second group believes that the posterior operation is not allowed mentions mortistity than the bidinumo perimeal operation. The mortality of the posterior operation as recently given by Lockhart Viennery, as 5 per cent. Indeed, the continue of the con

pen rectall t and mescaters the posterior operation is adequat.

Up t o g probably not over g ps. I of the access seen ere operated upon and after this careful selection the mortality of operation by the posterior route as 6 per cent, and of those r in mg the operation only 6 per cent in the three years. Their force only about a per cent of the patients even in of the operation only 6 per cent in the patient seem in of the patients of the patients which is also also provided to the patients of the patient

from below and that if it is not pecessary t excise

cent I Cripps series of cases which is the best for the posterior rout; it is found that o per cent of the t-tal number of patients seen wer alree three years later. Considering the most extenss, operation, the

combined abdomino perinasi operation of Miles, in high there is no possibility of implantation of cells from the growth, it is found that 7 per cent of the total number of patients seen are al. a t the end of three years and 3 per cent are all it the end of fix years. This is great improvement over the posterior operation but far from the 50 per ce. to permisent curries which II uniman it tastics oxide

posterior rout should surve instead of out a per

lead one to egard as the goal of the ungroo.

The value of the various operations should be determined definitely by figures rather than by the
impressions of ungroon. The operation of choice as
the procedure which gives the largest unable
of bring patients at the end of there or five years out
of the contract of the contract of the contract
of the contract of the contract of the contract
of the contract of the contract
of the contract of the contract
of the contract of the contract
of the contract of the patients seen

The fact remains that it are like to operate
you not more than 65 per cent of the patients seen

and only 11 3 per cent of the total number are ali fi e years later even when an extensive operation was performed. Not over a per ce t of all are alive

t a years later
In the author's series the mortality for the abdomino-perineal operation was 8 per cent. In the
last elected cases there were no deaths. Effects of the
patients operated upon died in three years or less
a dg per c t of these had metistates in the live

regional glands, and peri rectal tissues
H W F x, M D

LIVER, GALL-BLADDER, PANCREAS, AND SPIEEN

Reichla, R. A Contribution t the Surgery of Injuries t the Liver (Bearing our Chirurge der Leben-cristwangen) Beit Mrs. Chr. 9

Residie reports t ent cases of jury to the liver treated at the Allerheligen Hospital to Breslau Eighten were subcutaneous reprures and two grasshot impares. The tal mortality was 55 per cent that of the complicated reprures oper cent and the of the complicated reprures oper cent and the of the composited reprures 375 per cent. Of the two cases of guardot impure one complete teel by left cases of guardot impure one complete teel by left cases of guardot impure a complete teel by left cases of guardot impure a complete teel by left cases of guardot impure a complete teel by left cases of guardot impure a complete teel by left cases of guardot impure a complete teel by left cases of guardot impure a complete teel by left cases of guardot impure a complete teel by left cases of guardot impure a case of guardot im

The symptoms of injury t. th. liver are uncertain becare it a disficult to decide it indications for operation. Reachle divises early operation have every such injury in supercised, basing his divice the disproporation between the apparently alight symptoms of injury during the first feet hours and the sevents of the operation findings abort timilater.

In seven cases the cause of death was primary hemorrhage (five times f om rupture of the liver once each from injury t the vena cava and rupture of the spleen)

Present day treatment consults in suture or tamponade. A serious complication at the seperatration of portions of the liver which have been deprived of proper into Mean harmorning has bee very severe intravenous randitions of fluid blood from the abdominal cavity has been found of great value and the second of the second o

Martena, E. Anatomical Bases for Resections of the Liver (Anatomiche Grundlagen f et Resek tuonen an der Leber) Beitr B Chr 9 cri 620

The distribution of the various system in the inerdistribution of the various the organization is sufficient. This direction may be regarded as independent. This direction books good, however only for many and leaving the hitematical production of the control o

The peripheral anastomoses in the regions of the bepatic artery and portal ver are too mimportant to assert nourishment to nortions of the liver short off from the chief afferent vessel. In care cases the holated portion of the liver m y be nourished after Egation of bepatic artery by the arteries of the kulum. The ligation of an arterial branch and a branch of the portal ela preliminary to resection of the iner makes it necessary t keen to the line which separates the turne tracked by pecrous from the healthy tusses. Theoretically this line (the mestal border of the gall bladder or the right border of the candate lobe makes resection of a lobe northble on account of the danger of progress throm bosn of the portal vein, harmorthies may be controlled best on the resection surface (Wendel)

The lepastic cross has there divisions and tak their directions according to the anatomical division of the lobest of the liver. For these the employment of intrahepatic ligation comes into consideration since they are mirred by the ligition. Natural 2D

Moore, F. D. The Associated Pathelogy of Gall Bladder Disease, with Further Free for Cholecystectomy Surg Grace & Ohr + xxv 118

Gall bladder infection is more frequent than a generally supposed and disease due to or associated with disease of the gall blader is eye extens a sidfrequently or arisolated. Disease associated with the locytatis way notince periotically any abdominal organ and any structures in divide a part of the hody is no case of dresset or gall bladder should the

Is no case of dreased gall bladder should the surgeon be content the the removal or ther treat next of the primary condition alone he should look also for consults secondary in drement

The author erges cholocysicctomy in preference to cholocystoctomy. He circus as his reasons that following cholocysticctory the greater percentage of cases have no recurrence of symptoms, feere at his many are formed, bilary fishale occur much less fequently the reformation of calculu is very as usual, cholocy, title does not recur and convalence are more rapid.

Lecène, P. ad D'Allaines, G. The Repair of the Principal Bill Duct set its Impla extion fato the General Tendini Tract in Difficial Cases (La riparation de h. one bilines principale on se dervalles dans is tobe devell dons teru difficiles)

J dicker 0 12.
Formerly there emonly three operation methods to re-establish the continuity of the prompal based via direct stat direct state of the extremation of the sectioned castal, anotionosis in the diooderation convects or anostromers of the gail belief it is networked or anostromers of the gail belief it is networked or anostromers of the gail belief it is networked to the section of the division ball of the section of the division ball of the section of the section of the division ball of the section of the section of the division ball of the section of the section of the section of the division ball of the section of t

over rubber tube
Hepato-deodenal or gustne implant tion over
rubber tube with saturing of the bile ducts and

intestine in one or more planes

3 Reconstruction of the bile duct by mean of a rubber tube implanted in the stomach or deodenism without direct s.t. re.

The a thor reviews and discusses the cases renorted in the literature in high these methods, err

employed

In the surteen cases in which the first method was aved there were seven operative recoveres, five later recoveries, one incomplete recovery one complet failure and two deaths. The use of the second method in thirteen cases as followed by one ammediate and complete recovery fi coveries, in incomplete recoveries, one unknown result, and four denths. The twenty there care enerated on by the third method consisted of two cases of accidental section in the course of bilings operation, see cases of strictist, followers a new mosoperation, fire cases of penelistin and ten cases of h more or les old bihary fittals. They were that among the most difficult types of cures not ath to belian screen. The third method of operation is casier than the others and its results ere better The t enty three operations were followed by two enknown result one partially successful result t o recoveries listing for twent) six and eight months respective 1 fourteen complete recoveries, and four deith

I rom their study the authors draw the following

ooch nom

Farly suture sample approximation of the toe end over rubber tube, it ultable for cross in high the toed are seed seen Accelerata section of the bile dacts in his numediately recognised lot of wintance seems to be the typical indication for this method.

Higatoduokand or gustre implant ton over a ribber 1 be with direct anture is mutable for cases is which the super end can be reached so that a supporting suture can be applied, a little of the bit 17 existed can be dissected, and the devidenm or atomach can be mobilized in an operative region not modified too much by adherious

Reconstruction of the bilary tract by means of rubber tube ath gestric or duods all implants took and athout direct source is applicable to the most compileated surposal cases particularly facular

of the prencipal bile doct

The use of the rubber tube is an important ad ance direct a train officer and the sub tube not indispensible and there should be no hestation in continue; I have I entitle difficult and dangerous manetures.

Omentoplasty may be added to the operative procedure as it persents better reconstruction of the

personnal bile personn

A frester issuer of caces is occusary to pulge of the also of these operatin procedures but the number is already sufficient? I warrant the coachsess that the operations gr. or pool reads in priticidarly difficult case. The chief danger is ultimate structure of the assistments and sacroding lightry suffection. W. A Bureau. Loroffel, H. Preliminary Stages of Acuts Necrosis of the Pancress, and a Contribution t the Advantability of Early Operation in Cholelithm als (Vorstufen der alluten Pankreavachrose, za gleck en Batrag zur Zweckmassaglicht der Frueh operation bei Gallen-temleiden) Kli Weknick-

Acut pecroses of the pancress was observed ten times in 150 operations on the bile ducts condition a complication of cholclithusas stone is incarcerated in an end portion commo to the excretory ducts from the hyer and the pancreas the pancreatic ferment is activated by the bile which pames over into the pancress taking infectious material with it Autodigestion of the glands and acute necrosas of the pancreas result. If infection is present the latter may be caused also by obstruction t the flow of the pancreatic secretion alone

The prognosis is extremely unfavorable if th acute stage persusts number of days. It m more favorable in cases running a subscrit course with occasional flare una, even though the necrosis f the pancress may be extensive. The preliminary stage of acute necross of the pancreas as seen in cases which have not yet progressed so far as th formation of perroses, but the pencress and the tisspes immediately surrounding it are permented and covered over by glassy ordens. The thor observed three such cases with typical gall tone findings operation was performed within the first twelve to twenty four hours. A severe changes had yet been caused in the paneress by the occlusion of the choledochus. These three cases were cured, hale in those which were operated on later than

twenty-four hours from the onset, the mortality was 00 per cent The conclusion drawn is that cholelithuses should be operated on early. The possibility of a begin

ning acute necrosis of the pancress must be borne in mind when there occurs in the course of cholclithi ass an attack of pain in the upper abdomen which is similar to that of perforation, but localized more to FIRCHER (Z)

Lindsey E. C. A Case ! Multiple Pancreatic Cal cull Removal and Recovery Leach a s. com.

Multiple pancreatic calcull are rare, and relatively few cases of operative removal have been reported Lindsay' case was that of a man aged so years who had a fifteen year history of colicky courastric pain lasting to periods of two days to week Food increased this pain. There was no radiation. Slight but continuous wasting had been noted for two years. There was no raundice and there had been no change in the stools

At examination th urine was found free from sugar The X-ray showed irregularity on the lesser curve of the stomach which suggested a penetrating ploer but another view showed that the shadows

ere outside of the stomach

At operation the pancreas was exposed by an in casion in the sastrohenatic omentum and an incision made over the most prominent of the masses felt in th organ The duct was opened and are large at nes were emoved. The ducts were dilated, their walls were thickened, and the gland tustic was relatively thinned throughout. The duct was resutured and tube drain inserted

There was drainage from the tube for two days On the math day the tube was removed Con-

valorcence was not entful

The calcula conserted of calcum carbonate with a small admirture of oxalite of calcium and mag nesium. Cultures of the pancreatic fluid were negative S J SEEGER M D

SURGERY OF THE EXTREMITIES

CONDITIONS OF THE BONER, IOINTA, MUSCLER. TENDONS, ETC.

Bloodsood, J.C. Tumore of Bone Aerthwest Hed 017 ED, 108

There are certain data in the history that are of reat importance in the diagnosis if a bone lesson If the patient is under 5 years of go and th \ ray show that the lesson is central t is not sercome If the \ ray shows that the lesso is personteal, it is just as apt to be surcoma as not surcoma the \ ray shows that the lesson is periorteal and my of es mor than on bone it is not sarcoms or metastatic caremorna or an hopeless disease. A smaltiple personteal lesson is benign but may become mahanant later as in the so-called Paget type. If the lesson is ce tral and multiple it may be benign or malagnant If the putient is under 5 years of age it is not mabiguant, but if the patient is over 5) ears it may be one or the other

I interpreting the \ ray picture it is of great importance to compare the diseased bone with the opposet hone. It must be remembered that there may be an area of bone formation in front, and of bone destruction behind, and if they overlap the

Tray may n t how th process
The author has found Bence-Jones bodies in th urin only in cases of multiple myxomata and meta static carcinoma. Syphilis is also ye suggested by

personteal lessons, but in no case of syphilis is there intact bon bell with a central shadow

If the patient | ith a central bone lesion is under 5) cars of age sarcoms is excluded and the diag nosis rests between the common bone cyst, the less frequent grant cell tumor and the rare chondro-The common bone cyst usually becomes myroma cured a thout any treatment. Guant cell tumors predominat in patients over 5 years of My oma may occur tamy go and a the most diffe cult of all bone tumors t cure without amputation

The probability of cure of personnel or central sercome is present in not more than 4 per cent of the cases Gunt cell tumors, bone cysts, and syphilitie personalities were formerly confused ath serroms and included in the percentages of cure by amputation The author does not favor amoutation for central bone tumor unless the disease has destroyed the limb because the majority of cases are not surroms and the probability of cure is very small. Delay will do a harm in cases of chondroms, say some, and bone cyat, but the ment cell terror hich cun be permanently cured without los of function is cured more easily if there is an 1 t ct bone hell Only curettage is necessary. Left alone the grant hone tumor will destroy the bone shell and militrat the soft parts as completely at the most malemant sercoma, but wall never give rise t metastates. After curetting, the uthor uses carbolic cirl and alcoholso per cent sine chloride, or the ca tery canterization does of interfere with our fication

Bloodgood favors immediate operation on all privates over 2, years of age bo have a bose with a central centry with shell. M soom should be cent into this causers only if not t will recr as it ill be transplated in this may et. M't the construction curbole and alcohol and an operated upon a time. Some centure are left in the contract of the contrac

Perns, O. The Ossification of the Acetabulum and the Significance of the Supra Acetabulum Tubercia in Man. (Salia evadeamoos dell'acetabnism val agmificato del 1 bereulem supracoly lodeam poll'nomo). Chu d sepan d son storia, q. v. 45.

The author's long and ell illustrated article is an epitone of the virious theories at the development of the acetabulum and reports his on avestigations in the Anatomical Justit te of the University of Bologia. From his studies Perna reaches these general conclusions.

In the formation of the walls of the cetabular ca ity m man three bones tak predominant part Because of their attnation these may be called the anterior porterior and superior acetabular bones

The autonor cutabilar bose originates from the confinence of multiple bong sode; both rose t different age persons and are of different age persons. The first to become manifest at the person of the first to be continued to the confidence of the

and extends more or less on the entral part of the acetabular surface of th thum, definitely forming all the ventral segments of the factor lunata. In t can be datinguished, however glenotdal and T currespond an articula Jamma which form mg to the thopectinal line. The first never projetts beyond the lower margin of the semiluaar surface, while the second is interpored completely between the ilium and pubes and in small part between the pubus and sections corresponding to the more elevated portion of the mehiopulae articulation is the acetabular fundus. The upper sub margin forms the enterior segment of the acetabular ridge and shows a depression in the medial portion lateral the thoperimal scamence which may be called the ventral depression of the acetabular ridge. After the eighteenth year it force with the neighboring bones, first with the pubes, then with the flium, and finally with the achium

The posterior cutabula bone originates from the confluence of arrows bony nuclei which appear toward the moth year in the dorsal cartifaginous branch corresponding t the cartalagmous acetabultr ridge, and success ely during the sixteenth nd seventeenth years, fuse the the coersory but become manufested in the remaining the reductic cartilage- the lateral and mechan theuchanic nuclei of Staurengh After its complete development it occurres the entire extent of the the actuatic certifage constituting a transparer bony edge interposed between the ibum and archium and forming the cephalic half of the posterior segment of the faces hunts and the corresponding acetabelar radge. I thin lamina which continues its mediodorsal margin reaching the autonor contour of the great acretic notch and the acetabulum does not ordinarily project beyond the bmit of the semilunar surface. Its lower scetabulextends more or less regularly on the rechnim and to upper angle and acetabular margit more or less on the body of the slum I the middle part of the posterior aretabular bone is depression which may be termed the doctal depression of the acetab ular rades. After the seventeenth year this bone fuses th the neighboring bones, first with the eschium and then with the illum

4 Th superior cetabalar bone orunnates from nucleus manufested after the eighth year in the thickness of the caphabe segment of the catileginous acetabular segment where it meets the marginal cartilage of the ilium. It I ter acquires the form of this gular pyramid with an acetabular surface buch completely or in part forms th upper segment of the facus lunata (head of the cetabulum) with an eticular senface which first erteniates and then faces a th the body of the ilium, and an extra acetabular or anterior surface The margin interposed between the acetabolom and anterior surfaces forms the cephalic segment of the acetabular ridge which is differentiated by a thick levation in the anterior surface of the bore under ductions of Tain elevation constitutes the supraestables tablered. When completely developed to bone may be quute nolated from the ther certablar formations but frequently articulars and becomes fused as the anterior as dipotates and becomes fused as the attention as dipotates accelerable; bones. When this triculture does not occur more of sea deep and extensive incusance occur in the spaces between the critical measurement of the prophetic of the state of the complete of the state of the complete of the state of the complete of the state of

5 These three bones form the maximum part of the faces limits. The fundus of the acetabulum is developed chiefly from the achium and partly.

from the slown

6 When the acetabular bones are well developed and articulate, the acetabular cavity us r the deep and united by a raised acetabular ridg which with the exception of the dorsal and entral neurone.

does not how any pregularities

7. The anterior cetabular box has special morphological importance into besides it spiply seal character i contains portions of the cetabular box which is considered a fourth fundamental piece of it innominates boxe. The anterior cetabular box cetabular box cetabular box in the contained of the contained of

8. The bony ridge of the supra cetabular tu. 8. The bony ridge of the supra cetabular rudge by the supra cetabular rudge of the supra cetabular rudge to the super cetabular toos go set supplantation it the intermedial ligament. I the hip point and for questly to the innor this muscle This also is characteristic of the business precise as such I runs toom has great functional uncortance in the

erect position

TA A Base

Alberti, O. The Metatranopholeneses 5, notion of Koothier (La vasitorie metalar-oliangra del horiter) Chu d organd correction 0, 1, 500 horiter) Chu d organd correction 0, 1, 500 horiter and the author reports are cases of Koehler as patrome of the accord metatranophalangus! yout. These

cases varied in their intensity but were dentical in character there being in every instance pain in the joint in the erect points of in walking, varying swelling in the dorsal surface apparent shortening of the second toe, and irregularity of the joint noted

of the second toe, and energialarty of the Joint noted prajection, etc. The most interesting and characteristic changes are those shown in roent recognitions to the construction of the margin and army deformation the metalarisal head which in the beginning suggests outcochond into desacrass but later how sudening and fasttening of the articular surface. The proximal phalain of the second too is seen daily deformed by w design of in hake not the articular surface. In consequence the articular space becomes altered Som times the peri articular tristics show calcificate on and outcombit formations.

The course of the condition is very slow and the progroups is usually favorable. At most resection

of the joint is necessary

The pathogenesis is complex. The condition has been timbuted to various causes. The author

ascribes tt th following factors

The presence of anatomicophysiological continuous responsible for the selecture localization of the lesso in the second metatamophalangual point is support of the foot and hence in exposed to the greatest eight. The second toe projects in froit of the them and therefore in more exposed to trauma.

General pathologic condition predisposing to literations in the growing layer of the articular cartilage and interfering with the drall confication

of the metatarsal head

3 Concom tant causes epresented especially by trauma such as the weight of the body acting on tissues alread pathologically disposed. From such causes a disturbance in utitio much;

arms in the process of chondral ossification of the metatarnal head, causing first osteochondritis and later deforms g chronic arthritis

W A BRENKAN

Roth P B Two Cases of New M tatures Disesse. Proc Rev Sec Med Lond 9 xv Sect Orthop So

The whor first case was that of a woman sy vers old, be complained of pain of redling in the right foot for fire weeks. The Next showed swelling so both select of the second metatarnal bone. There as no history of injury. The Wasser mann test as negative After treatment with 3 gr of potassoum solded day for one month, the patient much better but not care.

The second case was that of nurse a years old, he complained of pain and swelling on the dorsum of the left foot 1 the base of the second and third toes. The 'vray above of swelling on the outer side of the shift of the second mentatural hone to the junction of the middle indicatal third and a slight.

elling at the harction of the proximal and middle third The Wassermann test was negative and there was no history of injury. The patie t as treated with complete rest and a sr. of notassium sociada a day for fix weeks. A complete cure remited JOHN MICHELL M D

PRACTURES AND DISLOCATIONS

Schletel, A.r. An Humani Case of Retreaternal Dislocation of the Charles (Fin selfecer Fall or Lavatso clavicularia retrosteronia). Uncarden med Il charche o lux e

The author first exics a theoretical explanation of the movements of the classic to the sternal some and of the evolution of a retresternal dislocation of the clayede and then reports a case of the latter

The diagnosis was certain from the researance In delition, there were symptoms of intrathoracic nessure and distinct difference in the pulse in the two carotid and radial arteries. M tion in the arm was limited to lateral extension to the hori-

Operation was performed, as in most of the cases of retreaternal dislocation of the clayscle b therto reported Reposition with fixation was not possible on accepts of complete cutting an Y of the cumule therefore a piece 1 cm in length as resected from

the daysile At the end of three months an almost complete care had been obtained. It would thus appear that resertion is the method of choice in the treatment of dislocation of the cla sele 1th pressure symptoms

Detas (Z) Samer F D. Fracture-Separation of the Lower Humanal Epiphysia. Practiceso: 922, cts, 241

Fracture separation of the lower humeral epiphy so which is seen most frequently between the ages years, may be dee to direct or indirect of 6 and vanience

There are t common types The first counts of partial or complete separation of the epophysis with a small fragment from the displyers which remains tracked to the epiph) us. In the second the line of fracture is just bove the epiphyseal lms or may partially involve it. Usually the line of fracture is through the condy les. The latter type s the more common of the two, and a usually due to direct violence. The lorner is usually caused by indirect violence

When the violence is indirect, the forcerm ith the small humeral fragment is driven backward, the upper and of the lower humeral fragment as tilted forward, the periorteum on the posterior surface of the humerus is extensively simpord up, the struc t res of the albon yout are myured, and there as extensive affusion of blood into the surrounding muscles and subcutaneous trances

Manapulation of the allow or area for the purpose of diagnosis is t be voided. An accurate diagmoterates ver / na foodule elistronia es esson Roentgraograms in two planes and control roest renorming of the sound ellip for commercial or Decessary.

If any degree of displacement is present, as at tempt t reduction should be made immediately under full appethone. The arm thould be held firmly while steady traction is applied to the wine ath the forcerm fully extended. While tractor is maintained the forearm should be slowly fered.

The manipulation should be along and from Reduc tion sometimes fails because of extensive ellipses I delay of a few days to allow absorption of the effesion defeats its own object as the blood her organized, causes a still more solid resistance and callus is formed very rapidly

If the displacement cannot be corrected by see operative means, open open from it inchested. The remaion should be made in the midline on the postrior surface of the arm A metal or other firsts hould be meeted. In the after fixation the efter

should be arniely fleved and the hand sepure Complete agritomical reduction is necessary to prevent excess callus formation buch ma ob struct movement at the elbow fourt. The greater th displacement, the greater the amount of callus

that ill be formed During the after treatment too great activity either in massage or movement increases the tim dency t critius formation, but prolonged immobility

tion at the foreign in flexion is followed by propounced randity of the elbos.

ther fixes the extremity in the fixed post tion, the the elbou reman free or hightly covered T relies the pare and to aid absorption, the gest lest efficurage as applied to the effect region from the first day. After a cek or ten d ye the sim is released daily and slightly active rection is given the arm then being replaced in the same aplint. At the end of the third week the arm a placed in a slow and further ofuntary movements are cocourseed Passave motion is to be orded

Following operative reduction the arm is left to toucked until the tenth day when the setures are removed. After several days the same matter # followed as in the pon operative cases

DAKES H LEVEYBELL M D

Maffel, F. Transmatic Dictoration of the Hip in the Child (Contribute alle studie della lemanose (mometris dell'anca sell'infanta). Che d'err -601

Traumatic luxation of the lap is ery rare in the young Of 84 such lessons observed at the Russali Institute of Bologua since on only three ere found in young persons. The of the young patients were under years and one was 14 years of age. All three had luxusion of the hip caused fall Fractures of the neck of the femue are much more common in the young

In the hierature the nihor has been ble to find only forty nine cases of traumatic luxation of

the hip in the young. The most common type of luxation is the posterior luxatio This was of th that type in thirty three cases and of the ischiatic true in arr. The terior luxations were of th suprapubic type in tw cases, the iliopectoral type m one and the obturator type in six. In one case record the type is of gi en Thirty seven of the patients were males, and eleven, females twenty two cases the left hip was lurated and m seventeen the right hip. Ten case records do not iste which hip was affected. Two of the author three cases were posterior iliac luxations of the left but and one w an anterior unrapulse function of the right hip All were operate ely reduced and CUTH

Spontaneous red ction as effected in only one of the forty-nine cases. Manipulative reduction is usually easy if done soon after the mjury. I cases ture should not be wasted in attempts at

reduction

With the technique which is used today there need be little face of sepais in only three operative case ere there any septic complications. Whether the reduction is effected by manipulation or operation it should be maintained by means of a carefully sociated platter cast. Failure at d principally to the wolf inction apparatus which is not difficient to maintain the limb in the deserve positions.

Epstein, G. I. The Surgical Treatment of Habitual Dislocation of th. Hilp (Zer operatives Behand long habitueller II. ethanationen). New Y Chir. Arch 9. 11, 10.

The observatio of case in which after resection of a t-bereindon hip he prostous occurred and cuilted in the formation of a bony wall. I the line actabilizar on hich prevented upward dislocation of the femour suggested imitation of the method indicated by nature by engreal measures. The indicated partner by engreal measures. The intelled of pre-enting recurrence of dialocation of the breif of the femuli by cutting from the litum a day of bone with personatem stateshed defecting to the state of the prostour of the prostou

The subor reports the case of bo 6 can obly also was operated on b Polesoff. This patient soffered from paralytic dialocation of the left him and showed other result of polomy-time high seriously affected. Alling the glutted muscles sere paraly and but the muscles of the thigh were letter discloped than those of the other and the seriously affected alling. The glutted muscles between the serious of the serious paralytic properties and serious paralytic properties and service to serious paralytic properties and service the serious properties and service to service and the service properties and service to service properties and service to service properties and service to service paralytic properties and service to service properties and service propert

was then made in the periodeum of the hum a cm abo the marpin of the cetabulum and a bony lamella shaped like a fan di tacked with its pensistal covering, deflected downward, and made att to the capanie with three situres. A rount genogram made six months later showed that the artificially created protective root was well established. There has been no recurrence of the discoution.

Kopits, J. Deformity f the Head of the Femur as an Obstacle t the Complete Cure of Congenital Delocation of th Hip (De Deformancy der Hoeftgelenkes des Femur als ein Hinderau der ollkommenen Helming der kongenstalen II eit gelenkinvation) Orsen keld 9 1 km, so

Deformates at the proximal end of the femur are dravided into the following groups () coorgenital changes in the bend, the neck, or the entire prommal end of the femur () congenital deformates plus secondary changes which has c devel oped from the use of the entremity affected by dislocate of the hip (s) changes which have arrean m connection with the reduction retention, and after treatment of the head of the femur (s) pathologic changes which are in the reduced head of the femur in the course of treatment—after an paparently complete cure

following discussion of the significance, the basis the relations, and the origin of these deform-

ties the author draws these conclusions

Congret tal deformities and those arising secondarily before reduction t an age when the bead, there are normal, a till educible—provided there a concentral stratification in the joint socket cause little or no distribution on the function of

the joint after reduction

Deformities of the head which arise during treatment or as a result of after treatment tend t

treatment or as a result of after treatment tend of the permanent. The functional society of the treatment is not complete limping persists in some degree Recognising their causes, as must do all in our power to guard against the development of deformatics. By more frequent changing of dressings we must inform conselves in each case whether the articular capsule or the muscles have or tracted sufficiently to 100 ms. It terminate the period of the properties of the second of

We cannot pervent disturbance of bon formation in the femoral head, the development of an ortecohoudn'ts juvenilis. This process is of a propressive character and office leads to destruction of the joint farthritis deformass juvenilis) but in other cases becomes fishionary it a certain stage of other controlled the controlled of the point farthritis destruction of the head not directly stage of the point of the point of the point of the point at it may be observed in production of the joint as it may be observed in production were normal at birth. For easiers still unknown, it is seen in tremarkable frequency.

in association with congenital dislocation. The ducese process may begin during treatment or some time after it has been finished, but she vs before the end of puberty it disturbs the mod result which had been regarded as secure. On the basis of these concrences a cannot regard re duction of the foint with good function as a permamant cure unless complete osufication of the epophy ses of the head of the femur has occurred

VO LO MATRIX (Z)

SURGERY OF THE SPINAL COLUMN AND CORD

Presiet C II and Spiller W G An Analysis of Fourteen Consecutive Cases of String! Cord Tamor J 4m H Atr are lynt, ou In twelve of the fourteen cases the tumor a ac

curately localized, accessible. Il encapsulated and distinctly operable

I thirteen cases pain as the first venotion and conspictions. The original pain rose negarity throughout the course of the discuse, but in the later states is more wedespread in distribution. It is therefor an important localising men. In foucases pain as present for three or more years, and in three cases approximately its sears lapsed be

fore motor sign appeared According to the location of the tumor the most common diagnostic trors are pain associated the movements of the neck disensed as Pott disease num referred to the shoulder desenosed as rheums term trun referred t the shoulder and arm due noted as peutitis paus referred to the precondrate diagnosed as angua pectors: pun referred t the upper stelomes di gnosed as dus t gall stones, man referred to the lower bidomen diagnosed as appendicates and pain referred to the lower extremittee disenseed as scratica

Gives case with pain of definite localization which is aggregated by movement coughing, or successe, and persests for months or longer in the orwand site 1th occasional remissions but without variation except in degree the possibility of spinal

cord tumor must be born in mind

The distribution of pain and parasthesis differ in that pain, most phenomenon is alway referred to the same side that of the lesson, hile panes thesis, cord presents symptom, may be homolat

eral, contralateral, or bil teral

In the classical description of the chical course of spend tumors three cycles to mentioned the cycle of oot pass the Brown Sequard cy le, and the cycle of motor and seasors paralysis. I not out Sequard picture

Motor desturbances were present in each of the fourteen cases in greater or less degree eccording to

the sur and location of the tumor

Speaticity is alway forerunner of extress or paralysis and in most cases the difficulty in locomo tion is due t the spesticity rather than strophy The sequence of emptoms a poin paraesthesis,

and paralysis

Too much stress must not be laid on the presence of sounal block. This is late rather than an early symptom Lasthochromus as present | only five cases and its duration as five three and two yours The Queckenstedt or Ayer test for sound block should be applied in all cases as it may reveal block before zenthochromis appears. A positive finding by either method should be regarded as only confirmatory however more negative findings

findings has been noted in cases of lessons other than termora It is a matter of very little consequence, when once the segmental localization is established, hether the tensor is intradural or virialized or hat is position is with relation to the spinal cord. In the cases reviewed there were no intramedullary

do not preclude the presence of tumor and positive

errow the of the national died. In one of these cases two-thirds of the tamor as athus the intracranal cavity only one-kall of the disphram mestamed the respiratory act, and respiratory breakdon a commed during the operation. The other death was due to embolism

T word making the opening in the spinal column too low I should be borne in mind that the level of the lowest lamins t be removed should cor remand to the location of the segment representing

the highest level of sensory loss

T prevent recurrence the operator should remov with the tumor that portion of the menutees from high it originated. In the cases reviewed there accord operation as was only one recorrence.

dvised but of permitted Recovery of function is matter over which the surgeon has no control. Assuming that the tumor was removed thout satury to the cord, the rature of function all depend on bether the symptoms

era due t pressure or to cont degeneration af to the foreser functional reco ery will be complete if t the latter it ill be more or less limited. When the symptoms are due to permure alone, sensory and motor function recover surprisingly promptly even when the turnor as present for several years Within few day of the operation, first sensors and

then motor function returns There ere only in cases in the authors series

th absolutely no return of function The article contains several interesting allustra-Cast R STRING M D tentre

SURGERY OF THE NERVOUS SYSTEM

Sacha, F. and Malone J. An Experimental Study of Mathods for Bridging Naves Defects, With Description of New Method of Autotransplant (Auto-Autotransplant). Arch Surg. 1923, 114

The authors has experimented in nerve repair on dogs t ascertain the best of three methods t employ about to-end anastomorus is impossible.

The most careful technique used, including ery gratle handling of the nerve a bloodless field the control of bleeding in the nerve by means of cotton pledgets soaked in warm salm solution or the injection of warm salme solution into the nerve and the procumation of erve tissue to erve tissue.

Several methods of repair re used b t all cept three ere discontinued. The latter ere as

follon

Anastomore of the central d perspheral ends of the injured zeroe int longitudinal incinous in normal zeroe. The freed cut-tods of the injured zero ere sewed carefully int longitudinal skips in

nearby new In eightern dogs the personal nerve as cut and their sutured t the tibul new 3 Austromous of the central and perspheral ends of the injured new t flaps cut in the same quadrant of normal nerve. The personal new as the red

t flaps in the tibral nerv in fiftee aperiments

Autotransplantation of half of th central end
of the injured nerve the segme t removed being
just long enough to bridge the defect (sut t

trunsplant)

The nerves oper t d upon er posed t arrous intervals and tested with electricit perspherally by the mustle contractions, and or trall by reflex storaghton of resourcion.

The animals are finally killed and the nervisionsed mis composall air being cut transered; mi sections of micross third or longitudurall. Leri fifth section as mount diso that the nery fibers could be true of as tem traffi

Other those the ners trook a unsatisfactors for bridging ners def i Thi most successful method for lurge defect const in implicit githe ners ends int in malpi. I health ers Hemorrhage from ners my be outrolled b.

distending the end of the ners the sit sold from Accurate poportunation of a ners ends us executed for the best result. I me silk see far les reaction than ratigut

The conclusions dra by the thors are sum manifed as follow.

In fibers will grow down the trunk of

braith) nert through longitudinal incision ith out impairing functio and some of the fibers. Ill connect up with the peripheral end. It is therefore of d antage t implant both end

On crount of the branching of regenerating fibers sufficient number of axon are produced

when a nerve is cut longitudinally to fill the sheaths in the implanted nerve indicating that cond toside austromosis ould be satisfactory. This tech inque has been used successfully in faciohypoglossal anastomosis.

3 Molone's test to determine whether perve has crossed a line of suture is walnable index of nerve regenerate along the standard many white here for new testing the standard many white here for new testing the standard many white here for new testing testing the standard many white here for new testing testin

4 Absolute alcohol may mhibit, but does not prevent, neuroma formation

5. Accurate approximation is the most import it factor determining near representation. Because of the presence of internal pleasures in nerves it is not so exacutal if maintain the original national relation as was heretofore apposed. Whenever nerve regenerates, shorts are formed at the regenerating end and consequently the central end of their does at increasing one of the properties of the research of the properties.

6 The method of to utotransplants is to be preferred t cabl transplants because no normal nerve need be injured and the peration can be per

formed in one field

The double implantation method cannot be

used if the nerve to be unplanted in larger than the other nerve and if there is discent nerve is. The second type of transplant has no id any

8 The second type of transplant has no d antages or the others
9 The method of chox for bridging large defects

se the double emplantation method of anistomous Its dvantage o er the t totransplant is that some fibers h ni one suture line to traverse Marcus Houser M D

The extinuse nerves of the Homach constit it three groups. The group it the least curvature composed of the gastro bra ches of the anterior and composed of the gastro bra ches of the anterior and posterior is at tell at the interior of the small omentum. The second or deadenopylane group is consist ted of filament coming from the bepruic nerves hab are situated chiefly it the right of the plane, in c. and appropriate the deadenopylane explains a c. and appropriate the deadenopylane constituted of filaments of greater curvature. The chiefly group it is part of the posterior surface. The chiefly group it is part of the posterior surface in the chiefly group it is part of the greater curvature. The chiefly group in the part of the chiefly greater curvature is constituted of filaments committed for the chiefly greater than the property of the chiefly greater than the chiefly greater than

The uthor carried out experiments on dops to study the effect of blocking the extrassic persons ystem of the stomach by vection and of stimulating the portunogastic or sympathetic branches

From the point of new of motility the stomach may be disided int. two distinct segments. The first is the critical portion. Section of the nerves of this segment diminishes tonicity hile electrical excitation of their peripheral ends causes contrac tion ring which is not associated the penstalen The second motor section is the transverse part Peripheral excitation of the nerves describated here provides peristable which is propagated to the pyorus

Total blocking does not cause appression of gastric movement. Section of the nerves causes an minediat vasodulation which does not extend to

the gustne mucos The anatomical d experimental findings have induced the author to try nerve section or resection of the gistne nerves in clinical cases in order t obtain () a diminution of sensit eness in the enervated territory () diminution in the toracity and frequency of gretne contractions and (s) drain tion of acidity. The t change of the reservoir of the various nerve groups is described. Such a resection a 4 done in twenty t cases you six cases of tabetic gratine erries and of gratine or texts.

twione aleers, and ten of gastropathies - ribout any appraisent lesion

in the gestric crises of tabes the operation is less severe than other operations usually performed for the condition but he only a symptometic effect. relieving pain and perhaps hypersecretion

The value of the operation in the treatment of alors ha not been determined. In all such cases the thor supplemented it by gastro-enterostomy All of the patient were greatly benefited and may be considered cared but this result may be due to the

combined oper tions

Blocking of the nerves is indicated chiefly by gas trop thics with symptoms indicating determiner of function but a thout any apparent leuon. Fre mently in such cases gustro-enterestomy is mediec tital hale note blocking is successful. Fight of ten cares operated upon in this manner were cored. One of the two other patients as a berealous and had ery servere gustric croses, and the other died from an influenzal complication W A Barrell

MISCELLANEOUS

CLINICAL ENTITIES-OWNERAL PHYSIO-LOGICAL CONDITIONS

Primmer A. The Secondary Manifestations of Malignant Deserve. And Surg 912, Izre, 3

Secondary cancer met staves occurs chiefly through the hamphatic chancels and present great

anety I bulk the secondary tumor or t more may exceed the permare

Handley demonstrated continuous e tennos of cancer cells from the breast long the lamb tic channel to the glands of the axilla and the i fracla scal r and supraclat scalar regions the pleura, the lungs and the opposit breast thence t the epignstrum and the at ei by the lymphatics of the round and falceform betweens t the l er and

thence t the perstoneal canty Enjag states that for months or eck the soil is prepared in lymph book demains primary focus of carcinoma, the mor eccut changes consisting of moderate se thing of the gland differe hyperplana, categoral evidention of sings endothelpina, mulimbeation of follicles and at later period trophy and fibroes or fat in asion of the nock changes he turbutes t the prorption of utol tic

and bacterral t us product from the tumor On the other hand, carrinoms of the breast m y be responsible in rare instances for distract metra

teres while the local is mind adopted except When clinical diagnosm of primary extension has been made a must al meane the molve ment of lymph gl ads even if there is no gross mans

festation of the condition In observent of the supract and hymph glands t the root of the neck on the kift all remove fre quently observed in cases of critical of the body of the stomach, the thornce duct being the channel of In 1900. Trouver first drew attention t. these facts

10 1996 Abscess formation in connection th the secondary munifestations of malignant discuss is due to the

trance of pyogens, organisms from an afcerating werf ce. Primary carcisoms of the appendi is in some a connected with the development of tuber colone nd m he holly a manifestation of that nathologic process

I cancer of the rect in and rectongmost, second ary metastases are found in the lymph glands and

m the u er Sometimes a single lymph gland becomes the sent of met static growth, the other nodes i the neigh-

horhood showing no us of ement whatever Implantation of carcinoms upon serous surfaces occurs all great frequency especially than the serous sac of the partioneum as in general bidominal carcinomatous. The implantation and diversing tion of cancer during oper to procedures is

danger buch must be gourded against in operative technique

The desenuation of miligrant t more may occu through the blood stream. This I characteristic of surcomata because of the fact that these growths are closely associated ith the blood cosch in their intim to hestologic structure and their immediat surroundings. Valignant surcomat of bone raped) metestature in the lungs, as do also those buch occur in the kidney in young children Many tumors, both simple and malignant, such as certain enthon dromata and the hypersephroma first described by Gra ts, invade the blood versels by direct con-

M testages in bone may form by dir et aprese from the primary growth or through the blood stream or lymphatics Bone is destroyed at the site of the growth and spontaneous fracture of a long bone may occur. In some cases the presence of the growth may not be suspected by the patient or the physician. Moran H Kany M D.

Mayo, C. H. End Results in Cameer as Influenced by Type, Reaction Location, and Age. Ass. Surf. 9 https://doi.org/10.1006/j.jps.

A greater number of persons in this country are bliefly becaree in on year than were kilded in our to years of war. The disease us prycently meres ing it as rate of about 1.5 per cert. year. It selects the victims from the mature and aged rather than from the young the greatest mortality being be t even the ages of so and 60. Women are affected it restrict degree than men the difference less in the

m observed of the organs of reproduction.

As result of greater publicity regarding the document of the desire and its destructive effects persons with sor pictous lessons consult the physician earlier this making it more possible t prevent or retard the

development of cancer

En ironment and paparenth cad due t degen entation or timitate or chibat t the development of cancer. P thologists and isologists has say gaited may hypothese. The wear of these in estigators seem t harmonize in the creptance of an terpeasin or depresentation of the cells, loss of lunction, and productation is processed in cancer and of according to the control of the cells, loss of the describing proof pribilogists has asserted that it is not the functioning cell—beh starts on cert by degenerating or repressing, but the immature—t

ing, or repair cells of the embry one type.

Make several f ctors, such as age enhaustion of the cell and loss of function or control, may has their place in the development of cancer the chemical environment, bowever developed, is undoubtedly

most important simulating force. The cells of youth are resurts it cancer but if once affected, the softer tissue and better lymphatic and vascula circulation render growth and metastasis more

From the clinical tandpoint great progress is being made in it claim the cit cer problem. A higher percentage of earl oper tunns no radical operations, and marked progress in rocatigen ray and radium treatment count for the improved end results.

The ction of the toentgen and radium ray on the malignent cell is identical provided the lengths are equal. I the treatment of malignance

expectally in the cavities of the body reductive their D is most effect. See radium is applied directly t the timore and the rooming ray popiled to the fees take eponal and deep in restance. It has been seen to be a cause complete this softeness of chair in their the cell becomes ordenston the naskes ubstance fragments and final all powers of cell representation to lost The debra is then carned.) by phageor tools and rupl cells to need to times. Blue revealantly in seed the features

of the condition, radium is most excellent. The end result of both mentgen ray and radium therapy is the development of throsis, which often changes the

type of malagnancy. Trom the standpoint of the pathologist, most important advances his e-been made. The immediate income nection gives a troe poture of the disease with out chemical or embalming changes of insure. Resistance to the growth is shown by lymphatic infiltration and round cell activity, which inductives the endopment of fiftons of On the other hand there may be no evidence in the product of the control of the largely foreind by the pathologist and depends in large measure—pos the presence of shore of the presence of shore of the presence of shore of the presence of the store of themselves.

I the May Clime the late results following pera

a th th cell evadence

SURGICAL DIAGNOSIS, PATHOLOGY AND THERAPEUTICS

Ten Broack, G., and Baner J H. The Tetanu Bacillus as an Intestinal Saprophyte in Man. J Erger M 9 xxxvi, 26

It is well recognized fact that bacillas tetam is adely distributed in nature but the 60 of mm as currer? It his originism has rece ed little attention. In the literature it has been repeatedly stated that man may curry the t-tanus bacillus in his digentic tract. The statement is based apparently in each instance on the work of some other investigation than the there of the article and on the fit that this hypothesis offers the best explination for erturn shoopather cases of it times in the cases following typhoid fever dijaentery and hiemorrhood over tions.

The case high first interested the thors was on which the source of the infections received to be farcil contamination of bed sore I this article they report the results of the examination of th I cas of sevenly eight persons and present excloses such sevent is indicate that in some persons retained the such sevent is indicate that in some persons retained to the contamination of the interest of the contamination of the interest of the contamination of the interest of the contamination of the contamination of the faces of male Chances to low in more attimust contact. It is the sold than the rape better persons the contact that the sold than the rape better persons the contact that the sold than the rape better persons the contact that the sold than the rape theory of the contact that the sold than the rape theory of the contact that the sold than the rape theory of the contact that the sold than the rape through the contact that the sold than the rape through the contact that the sold that the contact that the sold that the contact that the sold that

duplicated in the Occident

It as often ery difficult to obtain the origin in

m pure culture though they are plated repeatedly I cordingly I to exident that there is organisms bethe interfere with the production of tetanus toxin or devitory it and that the injection of mixed cultures is not clittle method for the detection of tetan

The thors examined forty three tools of patients in the bospital and obtained tetangs be ill from leven (36 pc cent) \ f month I t r

they a maned thirt fave tooks and soil tid tell musbaill form staters (acrine cent). In all they tamined is enty-cight stools and obtained organ Him which to their mornholies. But I vin neprincing processes e tetana liscalli from 12 a tet cont While the results mucht under t that earne of bicido are mora autocrous it est in activa-

of the year the athora believ that the higher or tage of positive cases in the L.M. erong examined due to the fart that they a re more

extrett in the same two

They do not report the or thoda and in determine the tecanes bacil in mised cultures but it i th t the only reliable method to the relation of the bacillus and the demonstration that the cult re forms a spasse produced toxi hich is neutralised In teta we natitioning. The unicolous of so and culturres to recet up to all for his teta h s. dla m v be prove to their organisms me a th the production of toxia. I rom the res to altauged at is concluded the ten of luge rok su the distribution of the builties

It is definalt to state part box these large underof them carried a fluent the che monders of the The thorals lock us like to odd us record of tetanus following typhoid i ord we t in though these due ses ire tremels unuson They has seen one case of tet follouing fall

such rupt n.1 the testion but did not product ternal mers. It is skill how er that forcem ph 1134 in Chin * al it were but t tames due der cily or indirecti t milestin)

infection.

While the sthort is no was 1 int 115 their l l f th t t tames prop tonum is extremel common. One is catigator in questioning hospital materia to t their better found that of \$ 465 hikire born, 6 per cent dad of on streen or m does. It is quite probable that many of these de this ere due to t t mus the infe tion commen from the filths dressums used on the cord. The he n at only peroxim t but they in some mile tion of the gr t loss of life bigh in arrow test hand in part with the spirred ag of tet us breill

In man The following conclusion to dr a from the

sperums t The onl reliable method for the detection of tetames bouill to the cult most of the seque ted material the resistant of tetraurisk warmen and the demonst tion that pure culture form a syrum producing toxin which is no tribaid by

tet menter un Thus exclosed demonst ted set as borstle in 14.7 per cent of stools from seventy eight purson

h mg m Pilin

1 The totames bresides ma be present in the di grati e trict of persons ho ha he n on a pric tically sterile dict for the soil f month or more and one person use elimin t art ral million spores of tetames becill ungi stoci

General I Bricar VD

ROENTGEROLOGY AND BADIUM THERAPY

Steinesser A. The New Rosatten University powers T ble of Fledler (\ ner Rocatges Lucy; | Int showing much luck) | We cat mad

H & de op he de

thor recognitive! table for the taking of Year pilites bich as dragged by hedler as engines of Yurich and is est mel useful because of it compile to not subspecially being the solution being table thout a separt tabe stand Unchr a pl t (ca frame) of t o parts buch are easily mov b in the longitudinal and train eve directions is the cubic t for the lower t be buch to be rom ble in both directions and connected with the ones, tand not I ad bitton to the mover t be box th lead gl s sadon this h a prooting arm wh b mos like up rid down and carries a frame to hold the duoroscrete

The apparet is he med as trochoscope for THE THE BELL AND THE PARTY AND the accest a write I ent rise of mirt in the plate for efficial ad oblique exposures from above dong ard and accurat one ter morare for exposures tel t a diam nat we of the t toling patient for t rune nemposed ert al exposures on the train t up the recombent no-ture for stereo-corne exposu es inh involucement and oblimuity of the upper t be not for the arc rat localization of forces body I Lwww

Nichola, S. H. The Receitery Disensel of the More Important Tursors of the Least Books Save Green of Other o six no

The best supervision gasted from the observation of mentgenour mod butte tumor is sample one of hone destruction of home production or of both, but other aspect, should be provided also such

the location of the tomor the ordition of the cort of the bone the age ad sex of the present the us sum of the soft turt, the nount of orners of the tumor thech rect of the destruction and bether there re-single or multiple hasses. I order t interprit he the of they observ tions it is best to il will benefurnors at four major divisions as ordpage () bethe the ar of medula or ore I ormen () bether or not they hurset rured by bone production by bone destruction or both (4) bethe the ortex has been spunded or de troved ad (a) boths the tomorism is or nonin in The more bone tumor helonging to one or more of these de sions re-enterer 1 f

then tholors, burnet rate of the more impor-

thone unors run to follow Round Il sercoma is medellars us origin con turns no se bone and cause mark it destruction in

all directions. It breaks through the ortex of the bone ad in death, soft town. This i mor ma bere in book but a usuall seen in the earls of the long book. It ill not ros sout It es an accompan d by no bone production and occurs most often before the thurt the est of age

Spindle-cell sarroms presents most of the characteristics of round cell sarroms, but is less in sarve, the roenigerogram suggesting some limitation, especially in the medidlary canal. here slaghtly denser area, poens at the perupery of the growth. This timory does not metastasize as readily as the round cell sarroms.

Perosteal aurona is characterized by new home or periodic and does in strice which are perpendic ular! the shall. The deposit of new home is entirely in the soft tissues and does not reach the home proper. The cortex may be destroyed later in the disease. This tumor is seen most often before the turtest by car of age and, the all malignant tem-

one is investive

Obtenations is usually cortical in origin. Bo expoduction by production by pronounced. As in personates afternous, the new boor is deposited in strine perpendicular to the shaft but in think the litter is found at that the tumor as well as in the invivided soft instead. By a superior like degree of malignant, may be determined to considerable extensionally and the strength of the control of the string of the production of the string of the production of the string of the production is seen early the cortex is detrived and the medializery canal invaded.

Bone carcinoma is also y metastatic and of med ultimore and as make it is seen at the middle of the bone of the mutileal foramen. There is only bone destruction, no bone production. The tumor never in ollers a yout and is seldom found below the elbon or kness. It is essentially discussed the later

period of k

My cloma is a tree bone tumor. Several tumors of that type may occur simultaneously at different locations in the osseous system. They are always medullary in origin. They give first the piperance of expansion and later of destination of the cortice.

Gaint cell surcome as classified—the benight tumors. It is usually mechallary in origin and found in the ends of long bones. It does not produce now bone in its growth, but show marked bone destroction. The cortics is intact, but expanded. The growth is multicould mustly occurs after middle.

hi and does of metastasure

Bose cysts are medultry in origin and produce marked bose destruction. I be jet not tertend up and down the medultry canal expansion, and it the same time thinning out, the cortex, so that they present cylindrical contour and often came pathologic fraction. They in meanly multicolal are compensation to the total college fraction in the rends of long looses, and occur in early the college fraction in the rends of long looses, and occur in early the college fraction in the rends of long looses, and occur in early the college fraction of the college fraction of the college fraction.

Filtromat destroy boate, are medullary in 1971 and occur as single tumors. Then thin out the cortex but do not destroy it. \text{ new bone is formed and the cortex does not expand. The tumors bors be single area of destruction and its not multibooils.

Chondro-osteoma ad osteochondroma present either preponderance of cartil ge over bone or of bone over cartilage. They are either medullary or

cortical in origin. They produce bone destruction with expansion of the cortex so that cylindrical tumor esults. They are usually multiple. Both hone destruction and bon production are present.

Osteom ta are cortical in origin and show marked bone production without bone destruction. They extend directly f om the shaft or the body of the bone. They do not invade the tissues but push

them ande

Exostores a e bony growths from the ortex extending out from the body of the bon and pointing wy from the nearest epaphysis. They re long and narrow and my has an esteoned of the ed.

Brief descriptions are gi on also of such condition as osaifying hematismats, myositis ossificans it berculous of lone is poblis and other types of osteomy elitis in which the roentgen picture may suggest a bone tumor. Points differentiating them from the tumors they resemble it enumerated.

ADOLPH HAPPING, M D

Crane, A. W. The Rountgenological Aspects of Activitia Guatrica. Am J. Recutgrant o

The material's high forms the basis of the author's study was precisionately one cases in which with few exceptions, the tomach contents were obtuned in five or six fractions it fifteen inmut tervals, beginning one-half hour after an Ewald test meal

The importance of chylia gustica is the roent genologist lies in () its frequency in cases of gas tro-intestinal pathology () its association is the dominal pain (s) it association is the intestinal disturbances in d(s) its influence the interpretation of receiver may signs.

As regards the frequency of thylus pastree. Crahe tates that it was found in 6 per cent of the entire series of cases. In non-of-these cases was under diagnosticated or found later by examination or a toperation of subjects. The other grains that the t conditions may occur insultaneously but he believes that thus is exceedingly rare.

Pam was frequently associated at hachylis but its source as often difficult to find and sometimes merpheable. In many of the cases at as traceable to associated leasons such as gastric cuser gastne sphales gall bladder pathology pericolar adhesions, mocomo coltus, or spoods) fitte deformans. The driver sary of causes of pam and the numbs, of cases of othylia at thost pain suggests that the activity attention

may not be responsible

The esociation of chilia with diarrhora has been emphasized by various athors. I Crane across

of 58 cases diarrhora as present in twelve. Min cost obtas was found only twice. The rapid expel son of the banum meal a th intestinal hypermithity may thu find a rational explanation if it reentgenologist is enabled to interpret his roentgen ray findings in commence with the distribution.

ray findings in conjunction with the laboratory sheet. The difference in the interpretation of the rocut gen ray signs according to whether archyla is present or been is most training to the finited in cases. It is

then pairwise of disolenal later. The disolenal size and the achin type of gr tife peractish may she in individual size in individual size of the size of the control of the individual size of the perial size of the perial size of the perial size of the control of the control

Gastre cancer and netters splits must be the same and a secondard in actifus the processor against being and supervisible. Permones anyme and cancer may show a attribute gaminarity a the blood pertains and both may be associated in the abdominal pears, each pears and a supervisible supervisible splits and the same a

In conclusion the sixtor states that solyin as sociated to wich an extraordistry range of pathologic conditions the Conclusions regarding it must be based only one or plangs areas of case. Because of set if the property of sets his an persons over so years of set is probably confined it in many radiologic conditions not related to it. The solitor therefore the conditions not related to it. The solitor therefore the conditions not related to it. The solitor therefore the conditions of the condition of the condit

Anount Harris V. V.D.

Delherm, Laquerrière and Morsi Kafin. A New Metiod for the Reamtgeorological Fripfortation of the Midney-Frequencyprimphine (for an assivess possible d exploration indeclopage du ron is possible primiphine). I de realed et d'écret

The authors refer I the nuthod of precursor kilds introduced by Carella and Sorodila of Brenos Alays into a This method has lost I or because may be treat it do not obtain the results reported by to originations or met an accelerate in its use Thiston, been seen has not it usceres shall be a superior of the confidentions, in more than any cases Thistonia and the confidentions, in more than any cases Thistonia to the contrast method but denoting the seen as the occursal method but denot it more outward.

nd downsard. It thus traverses the third, trues eroo costal legament of Henle and is kept away from the mediantimum od the fatty cellular tosses acrosseding the arteries in diesis. Oxygen or ear hon double is then injected from you to 150 ccm of oxygen is sufficient but greater quantity of

carbon docade is necessary.

The athers report eight typical cases of pneumoperinephros exploration. The method is indicated when the charged methods of exploring the hidney region h failed, and is of great value hen there is close co-operation bet een physician surgeon, p thologust, and roentgenologist. It \ Larry.

Rethbart, L. The Treatment of Frontbite lith the Roenigen Ray (kassesischer liening im Roesi gesbekantlung de 1 roebieden) Jerische die Geb d Ramigrade og 2022, 1965

The treatment of forthire th the mention ray as reported in the Germon hierature damag the earl years of the ar but was later forgotten Blockments speaks of long continued effect on the blood enech. This more be due to direct cities on the smoothoot or stem or indirect section on the credit into through an accress in the internal secretory activity of the comment. It was

In to 1) six of ent) were cases treated by Rothhart a subject or object can, or 1 least great improvement, as obtained. The hard thera peatic ray to altered th ough 1 or 2 mm of alumnam According; I foliakecht prophylacide ura diston given in the 10 mm will princast the deelepment of chibblant demors the uter.

ROSLAVER (Z)

Gene, J. T. Technical and Ginical Aspects of the New Deep Roestgenotherapy Am J. Roesgrad 9 It, 320

The term new deep roentgenotherapy refera more particularly t the application of shorter wa length radiation. It is further justified by the ealth of new information concerning the physical and incloseral factors underlying the principles of that spendic rocutgen ray applications, especially the beha for of scattered aduation, buch for the first time as the history of roentgenology permits the assurance of reasonable degree of precision in dosage. Frankers is laid upon the secretar of knowing the approximate we elength of the ray vail hie of understanding the rationale of filtr 1100, choses of seee and number of fields, and the target kin distance from high the application is made It is a sounced that there is greement as to the ration ainty of employing combination of radium and rocatgen ra, therapy wherever the attention of the pathologic lenon makes this possible. Only the trentment of malamancy is considered it any length to the article

As regards the salection of cases for deep therapy in probably sace I extinde a least for the protect, those patients hose malignancy has progressed to the tags of a med caches and uter beyond the new in the case of the regards of the research of the property of the research of the res

operative, the irradiated cells being in such degree and manner influenced by thu treatment that there is certainly less danger of transplantation during the

aurencal interference Preparation is just as advisable when deep roent genotherapy is to be dministered in massive doses at ample scance as when major surgical proce dure not he followed Preliminary rest in bed ttention to eliminative processes, dietary regulation blood and urme examinations, and even a blood transfusion (if t is the type of case in which such a procedure would be considered before serrical operation) are essential. Plenty of fluid should be administered by mouth, and if necessary by enema or intra enous injection. Lactore o gincore with all also may be added to the bound to dyantage The patient should come to the treatment room with an empty stomach Morphine diministered by podermically part previously lessens the tendency to nauses and comiting and quiets the patient during the tedrous and often uncomfortable treatment

Before bearanger the radiation a definit plan should be worked out so that all parts of the lesson may be given the desired amount through the most smtable ports of entry Charts prepared by Dessaner and by Holfelder present the best variable means of planning the fields and the percentage of the kin crythema dose to be administered through each one. The nuncroles of cartinoma or sar coma doses as last down by Seitz and Wintz are considered by the author as the best basis of procedure. The object of attack is t deliver to the some under fire approximately 20 per cent of akin erythems dose for caremons, and 70 per cent of the skim dose for surcoma, this dose to consist f homogeneous radiation equally distributed at no sitting to all the pathologic or suspected themes. In the author practice, the dose is seldom delivered in one day b t more often is given within two or three consecutive days, with an added day for the radium applicatio

As regards the technique f application, Case states that in the treatment of utern carcinoma four area are irraducted in didinon to the intratenue and agmal radium treatment. The proportion of the skin erythema done given through each
of the four ports of oreingen ray treatment depends upon the distribution of the lenson and the
mean discussioners of the privat. A fairer of
meaning and the state of the privat of fairer of
the state of go one is maintained. For the critical
distance of 55 cm is preferable to aborter
distance. We thin the thors technique t require
from min the working at 800 km with 8 ms
through the those to go on target also distance
through the those to go on target also distance

th the filter and fields mentioned to produce mild crythems on the skin of the neck. It is important t complete the introduction of the entire dose within the shortest reasonable time. There is littl likelihood of accomplishing as in the toward the destruction of the disease. It any subsequent track

as t the first one. The techniques employed t Feiburg and at Erlangen are described t some

length "Although the dosage may be checked up by some method of sonon try the individ d installation under the peculiar working conditions of each laboratory will become standardized, and chief dependence will be placed on the reproduction of the upby social factors (voltage millamperage through the tube time of apphasion, filter target skin distance, and aim of field of entry) rather than upo the electroconcer readings.

As regards the protection of the patient, Case states that the tube enclosure is not considered unfinent. The patient is covered with protective material except for the opening through which he is being treated. Lead or lead rubber is used and segrounded.

Among the immediate effects of treatment, natures and vonnting were frequently noted. When glands of the neck anila, or grous were treated, swelling and reddening of the area promptly followed but the swelling disappeared in from twelve it twenty four bours. In general, primary blush or reddening if the skin was noted which lasted one or tw. days and was followed in week or ten days by the deeper reddening of the crythems dose. The reddening gradually if ded and was inbacque the relaced by

bros decolerator of th skin Following inten a craduato it thests or neck, petentisfrequent ly complained of temporary dysplagus, dysplosa, dry cough, disturbance of the vone at times approaching phones, placy negal irratation simulating pharyogist or tornillities, and ordematious residenting of th uvula, pillari, and pharyins, but these conditions usually passed easy in four to tender.

The uthor has not observed any permanent deletenous effect po the blood count resulting from the measure doses. Only slight temporary changes in the red and whit counts were noted. In hunted number of observations the blood surers

as moderately lowered and the blood nitrogen slightly elevated. No marked constant change in the congulation tim of the blood was observed. The diminished blood sugar can be explained easily by the lessence alimentary intake during and mime dately following the treatment.

Rectal and bladder tenesmus were fairly constant sequelse of pelvic irradiatio in massive doses. The daily bowel movements begin to increase in number

about the third day reaching ten t fifteen in twenty four hours by the eighth or much day and then gradually returning t ormal at abo t th same rate

Romigen mionication is one of the less semions complications of the near deep therapy though it stands ut as one of the most disturbing it the patient. Headach names, womiting, and weakness are fairly common but fortunately are transent, usually disappearing a thin forty-eight hours.

When repeated treatments are indicated they should be separated by an interval of from six t

t el weeks I so sostance were more that three meson applications gi en In se ral of the cases bernetiform thin cruption followed the treatment thin a colort obut no lit dimage I the sk

was noted in any instance The humedute effect upon the ducase has been very encouraging. I go en series of consecuti cases (excluding those in hich cachesia was present) the occurrence of prompt improvement to by increased. Pam was usually rehesed, bloods and purulent discharges ere decreased or disappusted, ad the general condition was improved. While some cases responded no better thin before it is generally greed that palliation upon red more promptly in a large percentage. I less the is ble evidences of the due see doublecared. German rountgenologist who he been going this treat ment for four or f. years, h. e small series of patients now also three years after such treatment given ith what they considered nearly ideal title-

In conclusion the author at teathat the report of clinical result by Furopena rocatgenologists bould be accepted a th considerable reserve but the enormous fund of information concerning the physical and biological basis of deep theraps furnished by them and by American investigators permit most intellige t use of the botter length roentgen radiation should be gratefully consed. A definit and ance has been made in deep radiotherapy. Unprecedented good results of t least temporary duration being obtained more constantly in a larger percent ge of cases. Radrum therapy all be more that eve succes ful in ganconlogical prolignancy hen combined ath the intelligent application of the new more penetrating roentgen my hich by their adaptabilit t conver sion into practicall homogeneous radiation will supplement the internal use of radions to reach the lymph tie bacs along buch extension of the staller ADDLESS HARTS na i duresse occurs

Martin, C.I. and Uhler C. Roentgemotherapy of the I tracranial Parages Following Spinal Air Injections, Im J Rampred o

As more accurat, in thoch for the diagnosis of intractinal disease are greatly as ded, reasonable (proced is should be gr 1 11 trial The maction of rint the ultim books space and entineular at most ocated by Dand offer worderful possibilitie. The thors has hid the opportunity to examine fourteen ones in this manner d ring the past yea. On the book their results have been very antisfactory and they ha had no muchapa

essentsall that recom-The t charges sed mended h Dandy The xamin tion causes deconsfort but the information obtained often far outseighs the importance of the symptoms produced. Headache followed each injection. At times it as quit severe but stal ay disappeared walking twenty four hours I I case pain des loyad

in the back or m a kg daring the mjection, possibly because ners filtment became crught in the needle This pain also as usuall transient Eight of the patient remained in the hospital for twenty four hours or longer and their pulse and temperatures ere charted A riable use of temperature as not d which probably had some relation t turbance a pressure on the best center. N

tempt wa made t tod the absorption of the injected air xiept in one case. In this instance am il amount remained is the lateral entricles at the and of six days, but none of the other inserted

structures could be made out

The most important contra indication to the method is brain tumor in the postenor lova Il ben there is any question regarding the presence of ach condition entricula puncture hould be done first through a small trephine opening t equal use the ters are on the two sides of the medula Infertion and hymorrhagic conditions has also been mentioned as contra indications. The method opens t be of the greatest also in the study of case of hydrocenhalist in buch at it of importance definitel (local the point of obstruction

T facilitate the tudy of the details of the intra cranial passages a description of the cerebrospinal fluid carculators in tem is given and several ment greaterant of normal brain in discussed. If an obstruction occurs in one of the narrow passages the transfer quedict of 5x1 major the foramina of Luschka and Magendie dil t tion of the third and lateral ventricles results from back pressure. This condition is called internal hydrocephalus. If the obstruction occurs to the hasdar cuterus of the branches of the cerebral said: as often happens folloans menutus. distation of all the entrices is condition designated as communicat nt to occu

and by direct playing It is Duardy operation that normal rules al. 3 68 and that the baence of such filling indicates blocking of either the banks castern or the rules themselves I th thors series of functions cases the sules re Il filled only four times hereas the

re billed ten turses. I four cases there an questionable filling of a less of the aider. Since track pipe red sormal in most of the cracs in but the ale did not till h drocephales as prob bit beent they do not feel then fore that fail re of the sules t fill also indicates blocking

of these structure

ber ral or an abecome on president deli siels p thologic. Three of their re-cited brieff together th their rocatgenograms (asc. of a built of a care was considered and of hydroend but of the comm senting type. It sectored possible that there was a blocking in the beside atterns possibly due to memagetts. Case & simily case that of ma of 5 years. The con-dition as probably the result of surangets curving occlusion of 1 rge umber of soles I the third case inneal diagnosis of midbr in timor probabl Dame to the transferground bodies as made. The roentgenogram suggested a obstruction in the

In conclusion the following unmary is appended

I pection of the substractioned spaces with us appears to be a relatively safe procedure when the cases are properly selected. The after effects of the injection are not sensor one skull made following such or configurations of the skull made following such injections should sad materially in improving the mortality statute of beam surgery.

Sampson, C. M. Th. Ultraviolet and \ Ray as Physiological Complement in Therapeusia

A Newly Established Clinical Treatment. Am
J. Resulting 9 12, 570

About three years up the author began claused appropriate that with year t increasing skin tolerance it the Nray and finding some method t precited or strenges the understand between the strength of man in dought. Proof a to how ultraviolet light and toolet a y of these effects or may operat in breaking could be get now the control of the proof of the section of the action of the section of the action of the section of the section of the action of the section of the

more exact

By means of rapidly repeated en thema doses of the actinic ray area of skin may soon be brought t such condition that about fifty times the original dermatitis dose of this ray all be necess by t produce even the mildest envilonme. This increased tolerance of the skin is not confined to the tion of the actimic ra a lone but includes also to degree the roc tgen ray. Whether the due solely t the tanguag prod ed or t deer a in irrita bility due t the repeated inflammators in ctions or whether the blood chemistry changes following the prolucation of the ultra solet furfit has an inslot ing or damping effect upo the cride of turne changes set up by m su toentgen ray downge cannot be tated Cluvcal sdeace seems t show that Il three factors ha part Surface t pped grad ually by exposure t sunlight or cak polications of the actume ray not causing noticeable rythema show a slightluncreased tolerance t roentgen ra douge but the more we manuch keeth that wed by repe ted be a rethermal rapsoft produced by the quarts mercury burn Increased telepage a met follow whether the urface t or not but proveded us not great when t tag dos pot or The onjoint use of the oftra solet and the roe t

gen my as suggested it be utilize by compative stody of them local on grarel fleets and by the ease at high between the grarel fleets and by the ease at high beat hort of chincall at least, the 1 day high control extraorders and a least, the 1 day high control extraorders as the theory of the state of the state of the state of the stant at local high control extraorders as the stant at local already retrieved or the state of the stant that already retrieved or the state of the stant that already retrieved to the state of the stant that already retrieved to the state of the state of the stant that already retrieved to the stant of the state of the stant that already retrieved to the stant of the s

occurred, and has greatly are ded dosages which before the use of this in thod p od ced durn titls regularly. These will meant cautions, however caused him to treat a few hopeless cases first and wit for months better increasing thi dosage proved soft in those cases.

The technique consists in preparing the skin area to be treated by the roentgen ray by a series of cting; ay erythemas produced in rapid succession a d repeated until heavy tanning takes place or in case the subject does not tan f pproxim tely four a cla general ultra sokt radiations (not neces sand so severe, but as trong as comf rt will allow) being given at the same time for the constitutional effect When t is decided that the area is premired suffice the the last actions erythema is allowed to f de ut and the roentgen ray treatment thun go On the sam day b taft the roe teen ray treat ment t least as much ultraviolet radiation is an taled t the area treated ub the centers rays as was given if the i st pressous ultra solet treatment The general ultra solet exposures a also kept up The application of the ltr violet ay is exected in the same or slightly increased dosage over the roent gen treated a ... bout every firty ight or seventy hours tada ted by the ctinic reactio until that rea has had t least three good ctunic expoaures. Then all ctime erythema is llowed to die out so that if a ocning erythema ppears I ter t ra be detected I practic small central area is coered it t thru ctinic tru tments and th ultra solet ra polic tions are policed t all the test of the area for period of three weeks, the small co educes being paid as control for the cent se is enthimi

Several cases are ted in detail in which the treat me t described was used with good effect. Masan doses access of ordinary crythema doses wire given thout the production of an erythema.

In conclusion the a thorstat that the chief our pose of this linical rise it h was to point out that ultra solet dinoenteen rad ations are physiclogical compleme t. The one may be used in sym brows thathe ther I hat is the lira sold reapplied first enders the re-more resistant t aub request do tion the the receiven roe ign ray policy first may produc a lerma tological bacque injurious to the organism b t th ficts of that purs be allerent d or entirel neutralized b ppl inguitra sol t rudi tion second The alt solet ra therefor greatl ext nd the previo limits of rountgen ra flicaci in the teatme tof disease ADOL! HAR N. M.D.

Penderstrans, F. P., Hayman, J. M. J. Houser, A. M. and Rambo, V. C. The lifter of Radium see the Aormal Transce of the Brain and Spinal Cord of Dots, and its Therapeutic Application. In: J. Resulting, 93 13, 553

The thors describe at some length the experimental work don by others to determine the effect

of reduce upon the theses of the central nectors system. The report also their oun experiment smon does in hick they used both surface pple cations and implifit tion and noted the clinical

smptoms, gross effects, and microscopic ractures produced by various doses applied to the limin and spenal cord. Consideration is at early the separal effects of radium, the manufest toxemia, and finally t certain findings which may three light on the

nature of the general effects observed The results of their experiments are summ rised

as follow t. A expos re of the normal be in terms up t. r 150 mgm hrs is committible thille (meriacs p-

obcation) a The result on the cord however ould inof the diente th t vit laren of the brain as ell cord should never be exposed to riace application

1 Microscopic studies indicate that considerable change is t be found. Ith exposures thit cause no

or emplantation climical vinitions

A After exposure of 1,000 sours has the brills bout a general to flarg throughout the entire rad ted bemephere. This m et be ascribed to the production of an ordered buch is not ignited to the rade ted rev. but tends throughout the hemuphere

R desting of the brain a th radium (surface application and implantation) in cause as ere general symptoms buch indicate that a po erful toxin has been formed from the radiated tissue

d The effect of radium is due t a to fold action in first pon the nucleus and co toplism of the cell and the result nt death of the cell under conditions for oring a toly is. The direction of this

utoly is is determined by the chief component of the radiated cells. If this is protoin, the toric predacts of proteolysis in v exhibit their secent effect If the chief component is I read compounds, the result to toly us may free the torus components of

letithm and produce their characteristic reactions 7 The use of radium is recommended for the freatment of brain tumors but hould be undertaken only bone he is thoroughly familiar with the

il neem that may result from its frommer and 8 The andurer of the experiment on does are applicable t human beings since the not the destruction of brain tierre that causes doub, but some towns In the policytion of radians t the treat ment of malignes a trainers of the brills of man the normal brain tiesee should not receive more than

t to mem hrs

I conclusion the authors stat, that radium is to be recommended as prophylactic art not recur rence following the removal of brain tumor and fter sella decompression ad D act the treatment of cases of recurre t vowel distantances following sell decompression I cases of inoperable tumors it gi es good results when implanted into the growth and supplemented by crossire ridution through the scrip (external application) When a brain tomor is only partially removed, it should be implicated in the center of the curity and

supplemented by external cro- fire rad tion \iben b are tumor cannot be localized or discovered by operation radium may be used for external crossfire reduction. The treatment of sound cord tomora abould be restricted to crossive radi tion by the toenteen ry or redium in surface application there is are tida per of causing paralysis

tament if an sa M.D.

GYNECOLOGY

TETRNIS

Arnold C. G. Uterine Prolapse with Associated Privic Relayation. Kestschy M J. 92 33, 593

The terus lies in mobile equilibrium between th bladder and the rectum the cervix being about in from the union of the second and third sacral verte bee d the f pdus toward the symphysis with its are at about night angles t the vaging. The light ment are usually ha and merely limit the range f mobility

I correct terms prolapse fix the upper end of the varing and the cervix in the proper position, hold the fundus forward, and go e sufficient permeal support. If a large cystocele is present the interposition operation is best. When there is complete prolipse the viginal hysterectomy of C II Mayo with overl pping of the ligaments beneath the bludder and a high permeorrhaphy is indicated

R I CHRESTIE, M D

The Significance of Ancurisms of the Uterine \ essele A Indicated by an Arteriovenous Appearism of the Uterino Artery and Vein Due t on Aerial Bomb Injury (Ueber di Bedeutung des Aneurymus der Uteringefateses sack der Beoboktung eines Aneurymus arterio-enosum der Arteria und Vena uterina infolge The perhomben erletrung) Arch f Gynach o cavi,

Natural of the pulse exalt releasing reno at of neutran of the terms exclude been reported in the literat re. In the thor case - elling linge as a hen egg as palpable t the kft of the oteru. It medium portion pulsated) rebronously that the heart best and crused bulg 18g of the anterior ginal ult. The lateral por tion high trended up the pel ic. ull showed no puls toon following compression both portions of the tumor son refilled friction and a hum the t mor ere noted on pulp tion d rescult tron and the same boart the fanoral nd and bl common dia richa up i the ort Complice tiens to be fored mer we us use of the neurism compressio and rosion of di-cent part (p rt al ri th reter) thesion repture of the neuron there limit sev bemouth se malgranat dege ration of I tent infection ad embolom

Arrors but down of teta t t xı es en previo t the litetom The operation which tream I show on h esthesia massted in re of the left uret throughout it entire I'm ourse heation of the tenne riers lose t teen tenforests a pognetic arters titl e tup two 1 drain ge of the cul de-sac of Dougla through the gi. The centgenogram

of the specimen revealed a fragment of the bomb in the uterus and another in the immediate vicinity of the aneurism. The latter had p rticularly sharp edges

The author states that evidently the bomb fragment entered the pelvis through the greater scratic foramen Tollowing adherion of the essels invited by is passage the intima grew over the wound firtulous connection bet een the artery od ein being thus formed

In the differential diagnosis bematom: I th broad heament, pulpable pubation of the utenne artery in retro uterine hamatocel and cysts Gariner's ducts with apparent pulsation must be talen int con ideration GRAGIERT (Z)

Polish, J. O., Mittell, E. A. and McGrath, A. B. What Is th Relation of Hypertension t Fl brold Disease of the Uterus? Am J Obst & Gymes

The authors reach the following conclusions on the basis of 416 cares

The presence of fibroids of the uterus in young omen causes no apparent effect on the blood pres

Women with myomata wh have a high pressure are usually over so years old near the time of the dimacteric, or ha renal or cardiovascular dis-

The bleeding of fibrord seems to be salutary and has no direct effect on the blood pressure but when it is suddenly checked by operation or radium

the pressure rues temporarily

4. In women fig. years or over the pressure is raised for arying period folloting removal of the uterus and ovaries, but unless there is some intercurrent disease it soon returns to the pre-oper tive les el s. When the evary or ovaries is preserved th.

operative climacteric is less stormy 6 Th pressure ad nervous phenomen are more pronounced fier radium treatment the after operation L L Con 111, VID

Ortenberg II The Indication for Tot 1 Ablation in Certal Cases of R pture of th Non Ortenberg II Uterns (Leber die lochkation ser Totaleretirpation ben Uteramaptur in besonderen F ellen) Zerral'! f Grant o ы

A sextipara in the fifth month of pregnancy noticed discharge of amniotic fluid without external case. A few divalater a rud if introduced her hand to remove the dead child exercise of considerable force he finall deli ered the trunk d limbs of the fortus. The head ad placenta she was unable to find

old immutation at the bound I the internal on could be penetrated into imager in bourt conabovithe on on the right side. Integer ound cavit as found. The terms as empty time the word a man's first and soft.

amain in the son our Laprotomy performed at once revealed on the tight sale next the atterns a tomor like boltomy of the tight and next the tight and tight

domin I ca. t.

Total aldation of the lift is indicited not only when ther has been jury of the peritoneum fast also ben there are lift; rest in the broad lagricular with the second property with severe lagricular of the

terms content Rosse vi & &

T ffer Irradiation and Innocleation of Uterine

Fibron t (Tradement des Abourco pradiction and Enacientes) Bull (ad & méd Pur lens 500

In T first opp son the task toom for conserving two operation treatment of 1 nm behaves its operation are more measurement to the treatment of the present ground many the treatment. The present groups that the set of the sex re () that ery line presentage of the oness with fibrorial are, the sign of it means with fibrorial are, the sign of it means that the sign of the operation of the oness what fibrorials are the sign of the operation operation of the operation oper

time screat f action is preserved.

With good tech rupe ensclention is no more dangerous thin is terretion. Irradiation of ter the myometa should be employed onl. in the era was historycom. ould be accessive.

Dreis, I The End Result of the Surgical Tre-t ment of Carcinoms of the Cervix Uterl - Inc

lurys sor

5472

Man sorgrous h be one so eath sast in the see of inclume in so, of an of the risk ratt then h inter l brackoned the sabe loperation in the three contestions the for the pers to the operation in the most call his right had been the first personal for the person to the personal ratios of the possible had see of the personal ratios, the call herein. Are not personal residence that salum all give, fatting the personal ratios and the personal ratios and personal ratios.

I report published in one of that here case of radical hysterections to it is as from the record of the Massix-threatts General Hospital the mortal type groves as a figure cent and the figure cures as 47 per cent.

The ther report that t dilitional cases as buch radical by terectomy as done. These case. ere thosen from eighty fiv. cases of caremona of the cervit examined. The operability was therefore 37 6 px. cmt. Twenty of these cases were operated whom prior t to 7 and twelv more then. The mortalit 93 per cent. The fiv year cures a critered to per cent.

The radical operation consisted of side removal of paramet. A listue and liberal cuff of gual all is some cases our trage and cauterization were done ten d.y. pressional.

C34. preventing contra indications to operation are those showing militration of the rectal or review. If me is entitlessed of the formal figurests, or stemic cont a tasks tion such obesity thabet of craft cor pulmonary dense.

The most frequent complication in the cases re-

porteri avariants because

The t nily are buch ere operated upon
prior t 9.7 re reported as detail

1.1 Bromon M.D.

Melgs, J.V. A Study of Adenocarcinoma of the Fund s of the Uterus tw J. Ohn & Gymc or 24.

This art last based poin study of forty four ases of adebox remona of the funds of the uterus operated upon it the Free Hospital for Women in Brookline Massachusett ausee on;

The terms as I ged in man cases but the not constant finding. The crage age of the patient as 50 ears be entity pict t had had children the rige number bung three The a crage derition of symptom on car and

ght month ther fore if more emphasis were last pon the significance of irregul bleeding the number of ease in luch treatment a successful would be retain.

Judging from the st tistics the diagrams of adesociationers of the fundus is discult, ithout ourse scopic tods. Aresis of the circus may be easily confined ath at

Systy be and 6 tentles per cost of the coses studied an ishout recurrence t d t fi errs or more aff the operation. I outreen of the cases in that d but only nd 9 3, and thirty bet 4 nd 9 more wolf t cases.

the soci retornee of the fundate is not commons tumor in hospital practic then is unglike but four four me, in 156 operated upon size 109, but in prin to practice the audoubt disease more foundate the commons of the extra Committee the rection (not Writhern's method).

Complet h terectomy (not Werthern a method) is the most success! Treatment Oper from a to be preferred t radium ther ps

Live of the fort four prisent toded had met ting growths in the adness. Therefore hil teril dipungo-cophorectoms should 1 — be performed with the removal of the uterum

The differential drignous from gland hypertrophy a sometimes difficult even—th the microscope

E L CORTELL UD

ADDEXAL AND PERI UTERINE CONDITIONS

Dorland, W. A. N. A Clinical and Embryological Report of an Extremely Kurly Tubal Pres. nancy: Together with Study of Decidual Reaction, Intra Uterine and Ectopic. As J

Obst & Gymes 9 IT 5 The case reported as of interest because

It is the earliest tubal pregnancy recorded the embryo measuring only 1 55 mm or when the dorsal flexure was straightened #8 mm and show ing but 5 somites

The fallopus t be sho ed n sign of decidnal image

3 A sharp dorsal flexure in the outline of the embeyo closely corresponded t that ted in Wilson # embryo The s not natural condition and was produced probably by the contracted position of the ovum in the tube

A The optic vesicles were in contact with the overlying ectoderm

The optic vende was shown in very early stage of development E L CORNEL M D

Adenomyoms of the Rectowiginal Dogski, A. Space and Its Association with Overien Tumors Containing Tarry Material. J Obst & Green Bril Emp 0 120 447

The author has h d a sense of seven cases of denomeroms amounted a th cystic ovarian tumors containing tarry or chocolate material. The tumors were not ordinary varia tumors with condental hemorrhage but distinct entities. Such growths are nearly always belateral and ery adherent. Frequently they must be due out of the broad legament or the side and back of the pelvic cavity. They burrow into the tissues. The hining wall is often quite thick and rather leathery. The author regards these tumors as adenomyomata but states that their exact origin is still unknow

Seven of Donald's patients were between 4 and 47 years of see Nine were married and one was ungle. The one symptom which was present in every case was dymnenorrhose. In three cases com-

plaint was in de of dysparouns. In six cases a den tte, hurd tender mass as felt through th postenor forart. I a majorit of the cases pan as sterectomy as done H W IDE MD

Aumpson, J. A. I. testinal Adaptomata of the Findemetrial Type Their Importance and Their Relation t Ovarian Hernatomata of the Endometrial Type (Perforating Harmorrhagic Cysts of th Overy) Arck Surg

The adenomata of endothelial type occurring in the intestines are similar t those found in the ovary tube, or terus. The parts of the intestines usually involved are the sigmoid, rectum ppendix, and terminal loop of the ilcum

The lessom are () partiace and superficial im plantations, () impli tations developing bet een dherent folds of the perstoneum and (3) deep inamons of the underlying structures

Often they do not produce any ymptoms

other cases they cause obstruction

The treatment is removal of the ovaries. The intestinal lesions should be emoved only when they cause obstructio

The conditio is usually found during the latter half of the menstrual lif of nomen, usually after the thirtieth year of age, and occurs in more tha half the cases of oversen adenoma of the endo metrial type. The autho gives the histories i

R E CREBRO M D twelve cases Show W F and Addus W R Adenomyoms of

the Rectogenital Space Associated with Tarry Cysts Arming in Islands of Adenomyomatous Tiesus in the Overy J Obst & Gyest Bill Emp 0 170 45

The a thors report the sixth of series of cases of adenomy ma of the rectogenital space associated with tarry cysts of the overy. That these cysts originate in adenomyomat us turne in the ovary had bee to tended for long time a chinical grounds b t tremamed for Cullen and Sampson to show microscopically that they contain in their walls mlands of endometrial turtue

The case eported was that of married wiman 38 years of see who had had no children. To chief complaint was dynmenorrhoes if one year a duration Examination revealed firmly fixed irregular tumor apparently aroung from the terms which filled the pelves and extended up into the abdominal cavity to point four fingerbreadths bove th pubes. At operation the growth was found to conest of mass of fibrords in the uterme wall right overy was bove the pelvic brim and dherent t th bowel Th left overy was bursed in adhe stone obliterating the pouch if Douglas

Remov I of the ppendages and uterus was ex-tremely difficult. The fibroids formed an urregular globular mass the sme of a turns. The left overy was the use of tangerupe orange

On section, the o arian substance was found to be replaced almost entirely by series of thick walled cysts contaming dark chocolate colored fluid of turry consistency. The left t be was ormal. The right overy which we smaller consisted of t main cy to a th contents similar t th m ternal in the left overy. The right t be was normal Microscopic examination of there taken from th cyst alls show d distinctly structures comparable

Il respect to denomyomatous turne, including smooth muscle and gland spaces lined with cubical endothelium industinguishable (om endometrium H W FILE, M D

Probatner A. Results f the Surgical Treatment of Lang-Standing Tumors of th. Adneza (Hell results der characqueh behandelten chronschen Ad nextenores) Orners ketal o lvvi, 5

Operative treatment is justified only in cases in hich the tumor has been present for years, has resisted all conservative treatment, and causes acvere symptoms or incapacity for work. In any case operation abould not be performed until several months after the disappearance of inflammation

The operation is usually radical, a th total removal of the uterus. A conservative operation is performed only in unilsteral (poerperal) cases I

t cases operated on radically during the part five years there were five deaths, t from peritonitis, two from server and one from embalron. Of the patients who sprvy ed. or r per cent were able t work and 8 per cent were entirely free from symp tooks (fifty nine of taxty series examined subsequently) I twenty-eight cases operated on conservati ely there were no deaths, and of the seventeen omen subsequently examined, t cive (70 per cent) were cured, three (6 per cent) ere better but not entirely well, and t ere no better

The results of the conservative procedure are thus seen to be less I vorable that those of the rathed operation, even hen the cases are curefully selected. The only disadvantage of the radical tre tment is that t produces an artificial menopause but the symptoms of this condition are noted chiefly in nervous ocuen and are never so severe ously to diminish the good results of the operation Poi (27)

EXTERNAL GENTTALIA

Lagoutt The Formation of Artifici | Vesine by the Transpi tation of Loop of I testine (Création d'un agus artis sel par ampi mation digge we testingle) Lives a new a

cases of beence of the agusa Lugoutt operated successfully by Bald us method, via the transplant tion of a loop of the small intertine Victors erro norsio was made the detression med corresponding t the gin med lapirotom then done said loop of the small intertible intercor used t distance of about so cen from the sleocarcal valve. About 5 cm of this loop a thea resected and the end of the gut cre nastomosed. The mesentery was included in the resection. The rudimentary terms and or ner were removed and the two broad ligament waited and brought dow t the perincum. A cumb as then hollowed out for the new arm and the testin I loop brought don t the permeum and fixed place by suturing the mesentery. This having been done the loop opened ad sutured to the remains of the vaginal mincova

A satisfactory result w obt ned I neithe there were secretion of mount from the transpla ted loop

Camera, U. A New Mathod for the Saraical Treat ment of Congenital Vaginal Anna (Soora un agon metodo di tratt acento chararga, dell'ano aguade congrusto) A stal d chir 9 473

A rectal outlet in the female genital tract is ther rue coopen til deformity and the occurrence of the outlet in the various perticularly rare

The areal method of treating both vulvovestabilist and a graceretal fistale consists to desecting the rectum and fixing it taken ases. When the rectal outlet is altested deep in the vagin however this operation is extremely difficult

I a case operated upon by the author that of child 3 years old, the rectal aperture in the various had destroyed a part of the posterior vagual wall nd caused marked variant tress. As the ordinary oper the methods were not applicable, Camera decided to perform plastic operation on the porterior all. In disc anni was fest formed hen this as funct ming well, a posterior median incrsion was made extending from the middle part

of the sacrum to the be rechastic line, and the cours as soluted and rescried. The lower extremety of the rectum was then early found in the posterior vagina. There was no muscle structure correspond ing t an external sphincter but the levator an was inserted at the head of the rectal cul-de sac. The rectal communication with the vagues was explored through a longitudinal cut in the intesting and the rectum then cut way passed through the fesci of the levator and the sacroperment incison, and entured to the skip

There as some postoperative persectal support tion but the new mus was desultely formed by the fortieth da and evacuations occurred daily W & Bres

MISCELLAREOUS

Bird, F. D. Note on Form of Privic Hydarid Cyrt. nd Ity Treatment. Ved J 4 drains, 10 1. do

The author reports his treatment of three cases of pelvic echinococcus cy t invol ing the prostat Chrough suprapulue memon the cost on sty at emptied by means of an um forceps, gently in gated, and drained. The after treatment connected of relieving the pain and keeping the drain tube coen til ta removal C. H. Davis, M.D.

Young, J. V. Intermittent Appleadory Sypermula I Gynecology 1st J Old & G are o

If hen the lesson to be treated as an infection of the cervacil glands alone the instrume t described by the author on v be used as suction pump only but most cries there is according lympha gitts ith pen doeutis, aspiratory tim I tion

of great unportance circulatory thus due thenhandeline of malnosition, or both apparatory stungilation is of the greatest value A method of cleanung the cervix and perparing it for topical applications if > most serviceshie. When the infected glands ha c become costs they me be practured and pumped

empty and the cavity filled ith blood clot Of 78 cmm (76 those of ullipara and of multipaire) of were cured, forty seven ere

benefited, and twenty four not benefited

There can be no doubt that cervical infection is much more frequent and m ch more important as a focal infection and point of entry that is generally belowed.

Internution against by hypergums a a method by which infected cervical glands may be drained and a temporary hypergums induced to chiminat the infection. Hypergums will also timulate the uterna muche to rhythralical contraction, thereby improving the uterna toos and relaying circulatory states and inflammatory conditions.

E L CORNEL, M D

Albertin The "Douglas Cry" in Women (La "cn du Douglar" ches la femme) Lyes charge 9

Nearly twenty years, when carrying out a lanarot omy n woman, Albertin observed that when the fundes of the Douglas cal de sac was wiped a pharyngolaryngeal reflex caused the patient to tter a sharp and prolonged cry On repetition, the manusure alway gave the sam to Albertin calls the sound the Douglas cry has found that great many other surgeons have observed the same phenomenon. Albertin now reports it as recently he has tudged the work of Latarjet on the innervation of the uterus which shows that the Doorles sac has mich supply of sympath to nerve filaments. He tates that many of the acut vaginal pains of which women complain after a colpotomy or hysterectomy and the pressure pain in the Douglas region are explained by very great sensitiveness of th Douglas sac. The pres ence of such security eness is very suppositive of over man degeneracy

In the using Albertin paper Timer said that the Douglas ory can be produced also in men. If has caused it by prostatorectal dilatation even under deep answhem. The cry is diagree signal Cases are known of sever and even fatal ameribetic sympope in each dilatation, and it is possible that there is some abstroship between the Douglas sair refort and this serious complication.

W A BECAM

Nargisthach Malignant Chorlonic Epithelioms with Hismorrhags into the Abdommial Cavity (Valuese Chomospheliom mit Verbittung in the Baschhockle) If esclass and II k size 0 t hox 5

The thor reports the case of oman who suddenly collapsed ith imptoms pointing t tubal rupture. A year previously she had been curetted on count of a macairmage.

Immediate laparotomy revealed, in addition t large quantity of free blood in the abdominal carty

somewhat enlarged uterms with a small area of bloody tissue ithout acrous covering on its anterior wall. Supravignal amportation of the interior as done. Death occurred a few hours later in spite of the reinfumon of blood ind the urual restortive methods.

This was a case of inframural choronic epithel one which originated in the preguancy of the pre mous year and caused perforatio Dissects (Z)

Macomber D The Etiology I Starthty in th Female, from an Analysis of 500 Case Records. Basin M & S J 0 cixxvn, 307

As many of the 500 returns were incomplete and in many of the cases the tenhit was due to the male, the article is based on the findings in 537 cases. The conditions responsible are given as follows:

CHARGE CLASSIFICATION OF PENALE STERILLITY

| PATROLOGIC CLASSIFICATION OF PRIVALE STERILITY | |
|--|-------|
| | Per * |
| Closed tubes | 9 |
| Tuberculous tubes | 4 |
| Endocerments | 5 |
| Endometrate | |
| T tal cases does t mfaramation | 30 |
| Ratroverson | |
| Fuhroids and macellaneous | 8 |
| Scorple congestion | 4 |
| Total cases due to congretion | -3 |
| Antalaronn | ٥ |
| Double uperes, et | |
| Infantile term | 4 |
| Total cases due to developmental errors | 24 |
| Autricanon and overses | |
| Retroverson and overse | 3 |
| Overnes alone | |
| Age, diet, mesopame | 4 |
| Total cases due to oversen conditions | - 5 |

Sternity may be d to either th make or the female, the incidence of the condition being the same in both serse. When the female is repossible the chances are about even that the cause is pathologic on the one hand or developmental or functional or the other About one fourth of the women studied had dissed tubes or some other inflammatory condition. I on fourth the sternity was due to condition. I on fourth the sternity was due to extually developmental, and in movine failure of ovulation. In sternity due primary to destination of function the treating due primary to destination of function the treating the primary to destination alone will acknow be successful.

E L COPERL M D

Pomeroy L. A., and Hilward, F. W. A Case of Frimary Carcinoma of the Female Uretima Treated with Radium. Swr. Gyacs & Obst.

9 2, ERRY 155

The a thors report this case because of the great rature of the conductor. The facts a emphasized that carende had been present for several years before the development of the malignatory. At the time of examination a large foul discreting mass was found filling the entire introttes and extending shoot; you can upward along the posterior wall of the urchits. The pattent still standed undertal control. At a tatter, denied dispusses of primary carenoms of the urchits was made and small section of time urchits was made and small section of time

removed for pathologic examination. The pathol

ogist's diagnosis a probable cyrundle which had underrope executomatous probleration Although no definit evidence of I much tie in-

olvement could be made out it as thought best. beca se of the patient's d unced are and the extent of the lesson, t apply radium rather than t roll the short of more or k extensive operation. Five

teel needles each contamine a mem of radium element were inserted directly into the tomor it bout eq al dist nees from each other and llowed t rem in in position for t el bours 1 delition one tube containing so mgm of ridium element acreened ith samm of all er mm of bries and some of h rul rubbe. as unserted int the smethral can't ad low dit remain for four hours. The

total radium treatment therefore equaled 800 marm hrs The patient had only the usual postoperatile aid radium nauses and tu d y fter the treatment emetern lessure out toods toods bus on eaw I elve ds fter the treatment she had suff red no trackings or ther as motores and amin too showed that the mas a one third less in size and much cleaner out that the ducharge as considerable

reduced The uthors conclinants are compermed as fal-

Primary cureinoms of the legisle urethra hrare diserve only airty elebt cases ha me been reported by the literature

L rethral caruncie, a relati el) common affer tion in order my be followed by maliena t deers

eration betwee the importance of its early recognition od treatment

2. Unribital capter about the remembed early and en en Georges Meating 1

a In the early cases the treatment should control of racheal externation. I carresection of the bladder be indicated but this is rarch necessary. In most cures the essent sohineter can be saled in the operat procedure

1 Radium should be used after all operations, and in U ad aced cases may be employed alone Approx II servic M.D.

GENITO URINARY SURGERY

ADDENAL KIDNEY AND URETER

Branch, W.F., and Scholl A. J. Jr. Pathological Complications with Duplication of the Renal Pairis and Ureter (Double Kidney)
Serg Owed Folkel. 9 XXV 4

A review of the records of 144 patients observed the May Clinic since coy in whom duplication of the pelvis and ureter was found revealed that 35 (44 percent) had unilateral duplication (6 per cent) had unilateral duplication. In forty four cases the duplication as complet in

100 cases, incomplete

There is missily a difference in the size of the pieres of double halony the upper pelvs being the smaller. I make of this, the function of the tegentate is usually equal. Microcopycully the issue between the 1 segments is demonstrated to be a complet histologic unity. I some cases the capsale dips into the rend mass making definite partial division. In the specimens examined plo meruli and renal tubules were almost alth.) found in the parenching between the color of the parenching between the 1 o pelves.

The diagnosis of complet duplication is comparate h east by cy toscopic examination. I incomplet displication, however the condition is done ered only by means of a cottine prehorition of the control of a cottine prehorition of the control of the control of the book out of the third opening of calculations. In transcript, the cy toscope and or introducting to a by transcript, the cy toscope and or introducting its nest wir danglurated. The thors has deviced

three way cuberening guide which overcomes the 11 st discust t estimat the detaints functio of each of the t segments particularly if ne is diseased Unless good function cas be demonstrated in one segment a hermiciphirectom is not of the question. Pjeckorpabh in of abe in determining the contraction of the contracti

The tenes of 44 patients are divided int form cross () that pathology complexitions bo is oper ted on () tents form placetions be is oper ted on () tents form patients in hom default pathology complexitions is re-found but on bom operation was not per formed (1) tents numer pitting a bound but on bom operation was not per adoubtful evidence of pathologic lesson and (4) study-one (4) per creatly patients in bom the did to ct) as purch accudent I and no complications are noted.

The most common lesson calling for surpocal treatment as h dronephrosis crused by trusture of the aret. Of the st double kidney remo ed for

tuberculous the disease primarily avolved and was 1 gely confined to the lower segment in five. Stone in the arcter in these cases is often situated at the mount of uneteral di isson.

Surgical treatment was carried out in thirt—cases exphericiony in fifteen berimpephrectomy (ix particular) in the particular particu

I most instances the pathologic complications ther than thirsus with double kidner require nephrectomy. Complete nephrectomy was subsequently performed in to of four cases of hemisephrectom because of infection in the remaining option of the kidner. Unless the lesson is confined entirely to one segment and the chancel evidence that the remaining segment is one of the confined that the remaining segment is one of the confined that the remaining segment is one of the confined that the remaining segment is one of the confined that the remaining segment, processing in your segment, processing the secondary septrections.

R neberg, B. Hammatoganou Acut Infactious Nephritus and Pyeloosphritis (Nephrites bloom togenes, aspace, afactories et pyeloosphrites). 4cls having Scanii 92 h 58

Runcherry report so cases of infection the unnan tract At least so per cent of the cutic cases observed in his clinic are cases of ephrits or piclo observed in his clinic are cases of ephrits or piclo and is often wough disproved as appendictis or choice-statis. In order it determine the pathogenesis of these conditions Runcherry made. Introduce cammanto of 1 trge number of kindineys obtained 1 neph ectors or tops. If distinguishes its easestatish different types of cases.

Group Focal generalities I this condition there is slight epithelial degeneration especially in the con of ted tubules multiple foci in the papillary sones and finamatory areas in the wall of the perius and along the renal essels. The bacteria

each the kidned by a y of the blood at cam and hen eliminated through the glomeruli produce mfarmination. When retained in the canab, there form fost on buth the special it here in and cause points. The points produces by the lym the produces are the produces to the lym by inferts with militarities open and the point these conditions. Immination performs. It pyclic is not seen the production of the produc

Group Purulent foct irregularly disseminated in the cortical and medullary subsits ce Important lter (ions in the kidne) or pelvis ar rare. The

batterial emboli become fixed in the ramifications of the renal vessels, glome rise to abscesses outside the canal cular system of the kalney which by continuation, may cause later, or extra renal purulent processes it never calls this condition anosthe m tom nephrits metastings by the formation of embal

I the m fority of the cases the infection is due t the bucillus coli or a st phylococcus. A hemator enou color bacultus infection ; al ys an elimination nephritis. Nephritis pyelitis, and pyelonephrites due to the colon bacillos are only more or less ccentrated ph set of the same process. The early at se is characterized by fever beht un ary amotoms, and ague kumba pain. The urine contains large on intity of albumin, and blood is oft a detexted with bacteria in the wednment. When the stage of pyelitis is reached the principal symptom is sharp renal pain and tenespora

Staphylococcic infections frequently cause focal metastatic puruk t nephritis by the formation of mboli. The foci are often outside the secretory na to of the Iklacy. The urpus contrart white and red cells and bacteria, but no trace of albuma

Elimination separitis due to st phylococcie infic esembles colon bacillus pershritis but also differs from t in several points. It occurs more frequently in men than in omen. The periority period is often short, the cond tion then simul time evaluand melitis. In probrite due to the colon bacillus the primary in elonephritis is ofte longer than is the staphy loroccu fections and the py lonephritis

crises are not so frequent The m pority of case of acute infectious he matog enous pepkritis and preloperature as the quickly cured by consert in treatment Operati ention is not nices its during the acut period aless there is danger of anima or arpticemus R oberg trough ad ocates the use of strethral retentio sound especially in superscute pyelo nephrits ith implicats of election I thronic militeral or loocobritis ad pycloperatrons pephrectomy is indicated W A. BEDYLY

M show J M and Smith, A L. The Distrools and Trentment of Poelitie Kelesaka State ΪJ . ×19

The symptom rule signs of py little and it causes factors are proteon und my imulate those of practically any organ to the abdome The pros up d'erroneous durgnoses, re ppendientis, abnormal conditions of the I mak organ, the bilisty ppara tes or the thiodinum and stomach and postopera in adheum

The common cruses of pyelitis are () remot m 1 tions () constituation, () ureteral calculus (4) pel a criculus, (s) infection and associated b normalities lower in th genito amount tract, (6) preteral angulations, (7) preteral atrictures, (8) seph ontown, and (a) neonlasms of the kidney

The common complications are () hydronumberous () pronephrous (1) preionephrita (4) perinephritic abscess (g) destruction of Lidars traste (6) hy dro meter and (7) cyatria lay butterium may be the active cappe of the Infection The baciffus coli communis is the evial

ing organism in a large percentage of cases The d urnoves of prently rests spon the physical ras and evitoscopic findings. The examination

should consist of () the history and complete physical examination () an \ ra carimonation of the abdomen and (3) systemorus eramination and Meteral catheteriesing

The treatment go mg the best result come is of bradication of all infections box ever remote Regal turn of the langels

a Treatment of local mounted nathologic con ditions

4. The askin distration by mouth of large amounts ter and the changing of the reaction of the same every ten das

5 Catleteration ad dramage of the pelvis of the kidney followed by la age th bone and sole tion and the unection of the cent ail er adrets solution one t three times ak

The authors report thre cases t illustrate the alne of the methods mentioned

Case 1 that of oman greats of are to had an appendectom for years go for pain and rendity in the right lower belomen. The near had continued intermittently and the patient had been d ped that an operation t for adhesions as

Examination of the right kidney revealed probler, takulas in the pelvor and lowered function

The true cause of the abdominal name at *** Follow in the pub is and later another in the wrete. my the correction of these abnormalities the past ce ved

C'se that of a man to sent of the Para had been present in the left side of the abdomen for the part 6 years in spit of 6 e abdommal opera tions during this period. A surgeon finall decided t remon the left kidnes because roomtgenologist reported it much enlarged

The examination mad by the authors revealed perfectly normal left kidney but ps onephrotic right kidney The right uniter showed stricture and an angulation. The function of the right kalves as practically and. This case show that pain, tender person and enforgement ar not unmount in normal kidney but must double its exerctory function

Care 3 as that of oman 18 3 are of age bo complained of pain in upper part of the abdomen on the right side shortness of breath ind sharp pun in the heart region. A diagnosis of gall stones had been made by surgeon and operation wholed A general samunation revealed peridental arfection and myocurditis. The unine from the right kidney contained large number of pus cells, trace or albumin, and colon becalls. The capacity of the pel a as incremed to 35 cm. The normal ray than of the preteral flow as absent and function reduced

t one third normal Pyelography aboved gratly

dilated pelvis with partial destruction of the secondary calices A diagnosis of first degree py onephronis was made. The offending tooth was extracted, the nationt kept in bed until the heart function was normal and the Latney condition treated as outlined Terretor Decements M D

kreutzmann, H. A. R Studies in Ursteral Cath chargeation Preliminary Report. Celderal State I M 0 **TL** 1

This study was undertaken by the authoattempt t determine whether or not the present deadvantages of meteral catheterisation could be overcome by inserting the catheters only part a v

int th preters The patient as subjected to catheterization three times t intervals of one week A 6 ureteral cath eters were used throughout. At the first sitting they were inserted 5 cm int th ureters, the second tim 4 cm and the third time the full dis

tance int the ladney pelvs. After the insertio of the catheters c cm of phenobulphonephthalem solution as injected intravenously with

The conclusions draw are as follo a

In preteral cathet runation the occurrence of pain hematurus, and anurus moreuses in direct ratio to the distance the catheters are inserted

Catheterization as t present performed has fre quently depressing ction on the kidney function. Accurate information as to elative kidney fun tion cannot be blamed if the catheters are inserted

onl few centimeters into the ureters The only construction of moortance in ureteral

catheterization is at the minction of the ureter and th bladder

The passes of medium used eath ter causes persive dilatation of the ureterovesical sphincter high lasts it least one week

Repeated cathetermation causes still greater dilatation of the sphincter with further increase in the amount of leakage. Louis Gross VI D

BLADDER, URETHRA, AND PENES

Geljanstakt, J. A New Procedure for the Forms tion of Schincter for the Bladder (Em neurs Verlahren zur Sphinkterhildung der Harnblesc) ter Che Arch o

A man 3 years of ge with total paraplegia due t a gunshot morary recovered has builty t after ax months but the incontinence of faces and urine persisted. To years after the injury h was admitted t th hospital th deep decub tal keens caused by the urmal. The bullet which the roe t genogram showed t the left side of the fourth him bar ertebra as not f und t lammectour. upon the following operation was performed

I the lithotomy position median measure long as made from the scrotal insertion t the aniathrough skin and poneurous, and the musculature of the pel ic floor as split transversely and bluntly

desected further The bulb was displaced upward, the arms downward and the membranous part of the wethra as solated and lurature was carried trip around at By means f this suture long was taken from the f sci late and hoved under th urethrs, over which th ends were crossed and fastened with interrupted sutures to the strands of muscle obtained from muscles inserted t the tuber sechn (adductor muscle and becens) Figure of eight sutures and retentio catheter were then inserted

Galvan faradization was polied daily t the end of three weeks Two weeks lat th patient re ported that by putting his thigh muscles under tension in the standing position he could exam his prome for one hour or longer. After tw and on half months the function became better and the patient

desired similar operatio th rectum The antho has devised a untable plan of opera tion based on the belief that muscle plustic on th eluteus maximus muscle will et mechanically ad also innervat the external soluncter

O DEER OFTEN SACKEN (Z)

Scholl, A. J. and Brasach, W. F. Pre-Operative Treatment of Malignant Tumors of the Blad der by Radrum 4rck Sarg 9 1, 334

Certain types of tumors of the bladder expond readily to excessor, while others offer an extremely non prognous Because I the difficulty of completely eradicating the tumor and is frequent cellular transplants recurrence a early and extensive This is particularly true of the solid, means enathehometa which commonly occur in the base I the Small infiltrating wedges of ctively malignant cells which project dow through th muscle bundles are often cut cross ben portso of the bladder is exceed. The undisturbed clumps of cells which remain in the pormal tissue act as forspread rapedly and extensu ely and often soon attain an monerable sure

Epithelial tumors of the bladder rarely metasta use persons who die from malignancy f the bladder usually succumb because fith local condition. Any procedure which would ad in effectually eliminating the local conditio would in many cases effect cure

Recently the flat militrating tumors he treated with radium emanations prior t operation Small amounts fradium are used with the idea, not completely destroying the growth, but of dimin whing the captuity fith cell t proliferat don t inhibit early recurrences from segments t removed and t prevent re-implantation f cells

freed during the excises fith tumor

Under sacral aniesthesia the direct cystoscope is passed, the datal opening of the instrument placed on the tumor and the ev piece detached. This all low the w ter free exit and the contraction of th bladder firmly implants the tumo against the open end of the matrument and hold tim place until th point of the radium needle can be inserted and the tube dri en int the growth. The bladder is then filled with water and second area of the tumor located. This procedure is repeated until the t bes of radium emmastion in been tudded throughout the growth bout one to every square centimeter of tumor tissue.

Speciment remo ed from the tumor before radition are later compared - rila the tumor removed - t

Otheration

The most striking feature of radiated tumors is an extreme fibrous which produces an extensive walling off replacement and destruction of the tumor cell

It some cases the radium ra a undoubtedly destroyed the predictancy power of the cells considered projected but in a ausaber of tunors nests of prureatly mutat malagnant cells ere found. There cells generally alled off the extrems fabrous, were pour entity quescent at the time of operation as result of the export of the radium rays.

The insertion of tubes of radium emanation is a ris sumple procedure sike hims; be done to be time of the first examination. The small amount of radium raws is slow! dockarged and or, little resettion is produced. Most tumors of the bladder are superficially placed, thrombours of the bladder are superficially placed, thrombours of the bladder visuals develops with one consequents that he sorthand on extraction of the bladder sorthand one rectue or tous webstarrens is light.

During the period between the insertion of the radium emanations and the operation a duly hind der livinge is given which not only removes any necrotic slough but also reduces infection of the

bladder which is often resent

Emanation! be see not satisfactory in malignant profiloration as the loose tructure of these temors does not hold the tubes in place long enough for them it be effective. In this majority of cues in high the emanation tubes his been used the putent have been of ad anced ge and have had wide spread, highly milignant growths requiring extensive operation.

Lower W E. The End Results of Operations for Cancer of the Bladder Las Sorg + hxx

Some surgrous behen that all bladder tumors are potentially nashquant hile there base the diagnose entirely upon the histologic findings. The methods of classification also vary. Burger of sufficient historical been sidely accepted.

Generalty in 9.5 channied blother tumors from the therepreter transfront 1 gold and Harmagton di she them unto 1 o charses, one consume of these which can be to tred surfactoring by ende exceeding the channel of the charmagnetic field of the charmagnet

As the often impossible to determine the type of the growth from the fruzen section at the time of operation, the author believes that the cystoscopic examination which how the tumor 1 is perfucilated or sessile encurated or sloughing, single or multiple is about as dependable as any method of diagnosis

Three cardinal ymptoms of bladder times are been turia, pure, not freepency of annation. But get stated that malignancy is nodicated in () and ration noted on revtal regards, or extorogo examination (3) slowghing (3) lack of reaction to fedgration (Branch it to that if innor down receptor (1 thin or four treatments with the highest freepency current it may be considered malignal (4) the age of the pattent; and (2) the member and are of the tumors (so called betting tumors are not

to be multiple). The opening of time of the length of time that has elapsed betten the first space to state that has elapsed betten the first space tons and the opening of in its cases sated by Lynch the spapeon had been present for from one to foor years in 50 per cent and from there to four years in 50 per cent and from there to four years in 50 per cent and from there to four years in 50 per cent and from there to four years in 50 per cent and from there is considered and the space of the first space cent of the first space from the the first spac

eurs. Turdy recognition is not due t absence of ymptoms but to lack of ppreciation of their signifscence. Blood in the arine is always pathologic.

Lower report deal only with the surposal trest ment, that is, excuson or removal 1th the actual cautery Lower still believes that carcinoms in local disease that rational treatment consists in complet and radical excasion of the m olved area, and that the condition remains local for period and does not metastasure readily Gardner stated that the transportiones method or subtotal cystectomy go the best results. Lower feels th t freer dissection of the blodder from the pentoneum, alting off of the surrounding area better protection of the tissues and hen posmble clammag around the tumor before the bladder at opened and cutting on the pladder sile of the clamp is a efficient method of preventing contamination and the transplantation of cancer cells

The residence of all malgrant bluider tusous to recent a teres method of removal is used, has long been recognized. Constant against a state is therefore accessing. The printent should be told it return for opstoregore enamination it are at intervals of three months three times to intervals of surrounds the times that the state of the constant and three times is the residence of recurrence after the constant and the state of the state of the state of the constant and the state of the state

in a seema t indicate cure.

With repard t end results, the author quotes Gardner Thomas, Geraphty, and Scholl whose reports are based on a total of 22 cases. It has go either earlist an off cases of his own, primping the total amber to 350. The study of these reports leads to the following conclusions.

A large percentage of mahanant tumors are of popullary origin and therefore not referred to the surgeon until late.

The percentage of recurrence as high bether excesson or cauterarition is done

Recurrence a not a contra indication to treat ment as some of the best results have come from operation for recurrences

A Continued observation after operation is essentail if the mortality of carcinoma of the bladder is to

be reduced

5 The good results of the treatment of recur reners are due t the fact that recurrences are nearly al ay local and ery seldom metastasme IOMY P O'NEEL M D

Gunshot Injuries of the Urethra Fromatein R and Their Treatment (Scham erletungen der Harmorkee and thre Behandlung) V , Chir Arri to 1 H. O

At the becoming of the war dequate guiding principles for the treatment of injuries of the arethra ere lacking because in civil practice injuries of the pendulous portion are ery rare and injuries of the perment portio are seen rather as complications of riensive ounds of the soft parts rectal lessons. etc. In war the reverse is true isolated innuries of the penus being common and the break in the con transity of the urethra more important than the per foration of the surrounding tissues

Frontiesa reports 5 cases The pendulous potion of the prethra was affected in forty fi the scrotal or permeal portion in 7. Among the latter there ere fourteen cases of molated myory

of the prethra

Strungury is characteristic f an injury of the urethra this either cannot be relieved at all or is releved mmediately. The prognosis depends pon its presence or beence and the condition of the paraurethral tosues. When sufficient tim clapses between the mury and the first micturition (five t seven hours) fistulous canal forms a thout urmary infiltration and the subsequent construction is cor-

respondingly slight

Patients admitted to the hospital before the first emptying of urine should not be tested functionally even when injury of the urethra is suspected but should be taken under treatment directly a th pemothe cathetenzation preferably ith salk catheter having a Mercrer bend. If runture of the urethra a demonstrated and the patient has not) et urmated, treatment must be directed to securing regular emp tyma of the bladder the prevention of utmary mil tration and trecture and the hastening of the heal rag of the ound. The first two objects are com-plished most easily ith retention catheter. This should be changed as seldom as possible because if its re-introduction meets with an obstruction the formation of proximal fistula retrograde catheten ration and urethrotom; ill be necessary withor denies that the retention catheter for on the form tune of tractures

If a ragged urethral wound is not primarily re sected or the sutured ound does not heal by pri man intention, stemotes are una ordable. On the other hand the retention catheter hinders spon tascous closure of the fistulous tract and should

theref re be removed as soon as nossible that is as soon as the wound of the soft parts begins t cicatrize and the danger of urinary militration appears to be nassed If then the fistula does not heal scontanemah it must be excised. As failure to heal is usually due to the presence of a foreign body such as a silk ligature, the author uses catgut even in plastic operations, employing silk only for akin To cover defects he uses non pedicled flaps sutures of fascus late and the mner fold of the prepace Even with very large flaps, however he was unable to prevent strictur formation. He considers the mobilization of the urethral tube more important and when the defect was not too large got along without transplantation. After completion of the ow of sutures the catheter should be removed. When the mucrose was not included in the suture and erections were prevented, healing resulted even a thout central diversion of the urine

In the treatment of tructures the author met with several unfavorable conditions Whereas traumatic fistula could be prevented in one way or another or cured, this was not true of strictures. Preventing operations, consisting of excision of the crushed edges and primary suture, are justifiable but in prictice conditions are such that a certain amount of atenosis is mnavoidable. Therefore if the cicatrical tream is shift in amount and soft, and if the use of house has not been necessary for to or three years, the patient may be considered cured The treatment of stricture should be operative, provided the careful use of bouges in conjunction with hot baths or sulphur baths has been medecti

The results depend not so m ch upon the operative procedure as upon the nature ! the many The utho classifies miunes into five classes with an increasingly poor prognosis () tangential transverse injuries of the urethral wall () ruptures of the urethral all a thout special observent of the para urethral tusues (1) longitudinal tears (4) more extensive dismemberment of the urethra and ta surroundings (5) injuries in the sphincteric por

In cases of the first class schle-shaped meating forms and can be easily removed by double in ternal urethrotomy. In those of the second class there is ning shaped or cylindrical rigid tenosis and according to the circumference of the stricture urethrotom) of resection is indicated. Cases of the third dass should be treated with external prethrot ons excesson of the scar and suture. The a thor obtained a cure in 60 to 65 per cent of cases without the use of retention catheter by beginning a th the use of bournes ten to eleven day after the operation For cases of the fourth class he advises radical methods. He has had no failures hen after the resection the cut edges of the urethra were tured and the urine diverted. If primary uture was impossible because the chasta is was too great I was nevertheless possible t hold the una ordable creatricial recurrences within moderate limits after th resection and to achieve good result by the use of

bouges and arethrotomy. The fifth class of cases are estually complicated by impures of the rectum and the neture bones L en after the bealence of the symptom extensi e crestricual deformities remain which in conjunction ith the los of the activ dilatability of the prostatic portion often provest mourmountable d ficulta The uthor pelled t darch rge three patient. The superpulse black fistule of bels es that ne other ases he all be obligated a sorple to the raters and the rectum ON DITE CATEN SHORTS (/)

GENTTAL ORGANS

Chemin, W. The Operation of Low ring into the Scretum the Texticle Retained in the Insuinal Carrel (/ Overation der Heraldschrifte des es Impopulkanal retenserten Hoders in des Mentumi Meda J o

The at hor establishes the principle that the testis must not be removed for cryptorchulism because although the sperm togenetic tem is usually atrophied the secondary gland is not

I regard t the proper ge for operation he states th t the test frequently sink down t the scrotum spontaneousl oil therefor the operation should not be done too early. If the t stas has been displaced int the upper part of the scrotum it needs no dditional fixation a it restall sink don spontaneously and normal divelopment in only hindered by a tron

Ches in has performed the operation t tronces on temp the t Lught of the case is been unck observation for period in ging from six month t five ears. The real to good in two cases satisfactors in three and poor in three All of the patient ere over a eart of gr I more cases the spermatic cord ext ch mobilized and thre complet mobilization as not t

In the author operator at new mobilization of the sperm tic ord is the most import it part of the operation hat each should the deferens and t blood upul be mobilized most ref II along the course of the ptire inguinal canal, but the por tion of the spermatic ord is gin the pel is should also be freed. The firm unnectes trace bands hich often fix the sourmatte cord t the pelvic to

sees should be divided that be servious. From the perstoneum the canal can be separated more easily though the blood exclusinterfere thatbe lowering of the testes t great ext at the the as they must never be di ided. The loosening of

the blood essets in the nel is it accomplished easily but is less mobilizing the the separation of the canal Experiments on cid emishos th t mobiliry tion of the pelvic parts of the spermatic cord causes an erage lengthening of about 5 t cms there is no reason for fixing the testis in the lower portion of the acrotum, I need be fixed only in the emplest manner and in children so fixation it all is necessary. In o per cent of the cases the indication for operation is usually the present of a bernu or cost. The athor was nable to deter mine 3 enl recment of the tropluc term after the operation TON HOUSE (Z)

Retterer 1 nd Verenoff 5. The Local and General Effect of Resection of the Deferent Carrels (I ffet locure et générous de la plantim des causa déférent) I d'une mét at chri

Numerous experience to b. demonstrated that after lightion or resection of the deferent canals preexisting blooks and potentia coessads person a thors earlier experiment , th legation ere not saturfactors often the continuity of the canals as not interrupted complete! I the experiments reported in this article 6 to con of the deferent canal of dogs ere resected and the morphological nd tractural cha ges caused in the testicular ti sues by the resection were compared inh the findings of histological study of the testides of normal anal bose deferent canals had not been

rected The authors deal especially ath the epithelial lining of the exminiferous tubules. In an dult deg this links is composed of a common extendista try ersed by an stomosed fil ments constituting wide revised reticulum. When the del rent casal had been resected for year the filament found t be more abundant and the reticulation lover

The import it fact demonstrated by the x sturitions is that contrary to the theory renerally accepted since the findings of Ancel and Bosso m m eurs go ther is no hipertroph of the interest tial or intersubular connect tissue and the several desire and not tra esecution high persist due t the fler resection of the deferent causal effect prion the organism of the continued secretion of testicular sperm rather than t action of the so called pulserty at nel (interstitual gland)

Mer resection those nuclea claments of the testale bick had rined I their full de lorrorat t the time of resection show some degeneration, but those high ere to the riv stages of development continue t des lon Spermatore me evol tion con tmuce in the absence of sperm excretion. The cytoplasm however as denser and dock not liquely to hick b high the spermators can es the The development is slow and the succession torms of the cellular lens t remain here there era produced Sertol eff contrary t accepted notions are not found in the test le fter resection of the deferent capal

I the athors openion previous observers ere too reach t conclude that the seminal layer of cells in the seminiferous t hes degrae ted or strophied If they had sated nd examined the apparently puressed Sertob cells after a period of aght 1 tuch months they ould his e found that they had arrise evolved to I er of seroisal cell

W A THENNA

Rankin, F. W. and Judd, E. S. Emphysems of the Scrotum th. Result of Directleulitis of the Bigmoid with Perforation. Surg. Gyacs & Obst

Six eeks before examination marked frequency of

unnation with burning began although no blood or

gravel was found in the urine. On two occasions gas

was passed from the urethra The physical examination was negative The unne showed albumi erythrocytes and bus a Combined phinologiphonephthalein test was per cent, and there was 14 ox of residual unit leucocytes numbered 7,300 and the erythrocytes 4,550,000 The hemoglobin equaled 74 per cent The reenteenological diagnosis as obstruction in the agmost flexure. On digital examination of the rectum an obstruction was met principally o the right ande bout o em from the anal ornice. A tent two disgnorm as made of diverticulties of the regrowd attached t the bladder causing a x condary cyststus and an interm ttent fatula

Operation November 9, 9 revealed mass about 9 cm in diameter deep in the pel is and it tacked it the left wall of the bladder. This as lentified the sigmood with much flammatory tuses bout ! Multiple directicula of th agmod could be demonstrated above th growth A loop of alcum address to the mass was not removed for lear of perforation. The colo above was greatly distended with gas. Resection of the entire massecord to formadable and operation to be performed in he stage therefore a preluminary coloriomy was done.

The immediate co valescence was uneventful.

The coloatomy had not been opened. On the eighth
day the patient complained. I quite severe gas pai

d suddenly noticed that his scrotum was been me to seell. This elling was punless but oc curred ta considerable rate. Within the hours th acrotum was about 50 cm in diameter and air crackles were beard within t. It seemed certain that the condition was in no w y connected with th extravasation of un cas the patient voided with case and the physical appearance and feel of the trastics were characteristic. The fact that a fistula was known to exact between the bladder and memord did not explain the condition since it offered no anatomical basis for such an emphysems. The abdomen was bellooned up with gas and peristules was visible The colostomy was opened and abd mi al distention thereby reheved. The emphysema f th acrot m decreased very gradually t o weeks clapsed before twas complet. The patient was none th werse for this unusual complication

Because of the peculiar austom cal arrangeme is to seemed highly improbable that gas made its n y mot the bladder and thence into the subcutaneous askers of the secretum. A more plausible explanation as that leakage from another perforation or the same one burness of through the pertuoueum and under the form of the things of the performance of the contract of the

SURGERY OF THE LYE AND EAR

J meson P C The Correction of Aquiat by Muscle Recrision 1th Scienal's turbed Inc. Call a la a

Muscle recession , ith scienal aut ring or m ril linck the off pds a muscle, here the deform t Li poni

It les es n unmatil (d march. tre Uh broad, preparl placed the honest can like of nor mal two od u orog ork

It many the effect of a notion by build ever ing the miscle military to the question in The spoure of the field bles the oper for t mıí luable observation right i knurth breadth laxity to non-bit connect that obtructions It bles him to grade his open to so se cur tel unsures non-pornted tt has t go es

definite independing in t bere the musch in fixed and but was of school fixation mothers tenotoms saf oil reliable procedur

It sal mumb com more t

Anking digital This ha been the most grital ing out one of the operations performed. A powerful markle two rf. nd broadly trached to the sek nek g form 1 from H it primary origin t the out forame secondary tion or origin from the h sen of the check ligament and supplemented by HWO addrector muscle as bull ark for the prisers win

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in bather tered w HIDER. 10 GÍ smm thechrifts to ill one t de union of cdoren

In many so double to record of a more on both sides a thirth all fi tum ill orn tide two of 15 degree or more

The or nation of review ith ack I but it is has all the ditues of tenotomy and deltara as on definit schini bratto rs unnort t result high is not give by tenotous

JANES P. LITTERS AND N. I.

Prinklin, W. S. and Cordes, F. C. An Univital Orbital Tumor. J. Int. U. 412. p. 1. 18 The case reported as that of m n so rs of age he had had a mor removed from his kit cheek five araptersoush is before the opers tion tomor opened in the right cheek. It the time of examin tion by the uthors the lid re barry and full but the) not closed The receive of subcutaneous tumor not tracked to the skin as sugget to Both lathry mal glands the nee uncular gland on the left aide od the sub boguil glands were pulpable. The teeth re in

poor continua and show digners that of the tall ork The twent ere hypertrophied Small abed it porterior cervical gland ere found, and ther adenomath) of one large and several small a illury gland on the right aide. The other findings ore practically normal to there as no ch nee in the runn ad the natholises as an sect in of the tumor is t ken from the

ight Let The t mor trans of from the left heel as eral years pressourily reported by the puthologist non malign at I much glands. The tumor is me I from the lid world not be disproved def

untel I some rea it resembled xanthon: 1 Litter he a large part of it as exceed it a found not encapeulated

The thors at to thit the condition might have been Vick lies diserve, in higher in thoma, or granulom but re-inclined to regard it multiple

ka those complicated by infection T D MEN UD

Patton, J. VI. The Localization and Extraction of I tra-ficular Foreign Bodies, J in M An

The without surgest extreme care in diagnosing

forcing bodies in the 3 citing several cases of his and an are ex minimum as not made for several da beca se the patient he had bee but by ery large object or did not m relier to the had be het the en. He et al for an interest multipart le

of m t ft. Less nee post being the the onjunctival close to the l'imbass before the X-ray plat is mink. Abouths, method of los lisation is the use of little magnet but this P tion grand as of question ble time f the possible to mak a line tamin's

Befor beginning an ope tion for the extraction int or lar foreign bud the mestion of prognosa should also 5 be discussed ith the p tient to much exper t that tim to explain the danger of the operation and the possibility of fulure the aftern rd to rule, the p ta t ill be alling to submit to the operation and then if tisfactors ill feel that even the result are thing possible don∈ t th ev

I tion mentions room m gnets hich are on th m rice among then the hand, Husb, and ring murpet If the kis own memence ring Dugmet

Patton belie that one should not also ye cater the through the anterior portio por al ya through the post rior portion but should be guided by the circumstances of the protecular case Tomes D Acts M D

54

Butler T H The Influence of Trauma upon the Onset of Interstitial Lerstitia Bru J Opick o Yu. 4 5

The author draw the following conclusions

An tired of interst tal keratits may be precipitated by an codemit is comes which is predisposed to the disease by spinish or tuberculous it is possible that very slight traums such as the instillation of drons or the irritation of gen-

eral arrathetic may have the same effect.

3 The track in the injured eye may be followed.

by interstitial keratitis in the uninjured ex

4. It is possible that a impury to one ey may

ca se an ittick of interstitud keratitus in the other yu. June P InteGratari, M D

Verhoeff, F. H., and Lamoine, A. N. Hypersenal trieness to Leus Protein. Cataract Operation Ast J. Ophth., 92 700

In premote papers the authors has a shown that about 8 per cent of persons are hypermentive to less protein, and that when, in such persons, the inestigated to operately to operation or injury natra ocular adiamentation results. Because of the damper of represeng the less capsule, in the intra-capsular operation they suggest deventuring the less position of the protein of dermoning the cutariet by discussion followed by simple linear extractio 4 acres in which in those succeptability is reported.

Jas Pimbu MD

Hawthorns, C. O. Observations on the Significance of Retinal Homorrhages. But M. J.

In the author's opinion retinal hymorrhage may be without clinical agnificance but whin this intended the state of the properties of the properties of the vicera mitral disease, it is between the theorem mitral disease, it is between that hymorrhage of this type would be seen more offer all routine ophthelimstopy examinations were mad. Other etnail hymorrhages in be caused by volucies such as both resume. A third type is the volucies such as both resumes. The type is the properties of the prop

Uncomplicated retural harmorrhage to of the same of the part of the temperature of the part of the par

Teron D Ann ArD

SURGERY OF THE NOSE, THROAT AND MOUTH

NORY

Nejstschak, W. Polype of the Base of the Skuti (Univer the Polypen der Schandelbaus) Schuszeis Gerillach f Obres Rais a Kannelranda Petromed, occ

The monograph published by Kobyluskij in 908 completely exhausted the subject of polyns of the base of the skull up to th t time During the last decade however view have ch nged somewhat and therefore now crutique is necessary. The anthor ductures the following points

The histologic similarity of the timors. Use lly polyps at the base of the k Il are angrofibre syrcomata. I one of the author's cases a marked difference between the perspheral and the central portions of the tumor was evident. I the former the number of cells as greater suggesting the microsconer pacture sarcona although macrosconcally the proplams appeared t be ordinary polyn Choana tumors, on the other hand, consut mainly as to cil known of bure fibrous or ordemat fibrous tastue

The operator technique for the removal of polyps at the base f the kull Of the old methods the rout through the palate and the suprabioed pharyngotomy of Jetemitach are the most dyan tarrous they do not cause dathrurement of the face, but they are not applicable to all cases. Facual methods must be avoided because of the resultant disfigurement Therefore Denker proporti t reach the numor through the ventibule of the morth and the antrum of Harlmore should be coepted for those cases in which the mahemant tumor is located in the nasal carrity or the autrum of Highmore Further experience is necessary, how ever t determine whether this rout is suitable for the removal of large and deep seated growths. In one of the three cases operated on by the author by Denker method there a recurrence which re-This was turner of the nasesalted in death pharynx. The route through the palate was used once by the author and the recurrence of the tumor removed later through the cleft in the palet. Dur ing the year the patient as kept under observation following the operation so further recurrence de veloped. The cieft in the palate cansed no disturb ance of f notion. In one severe case. Kocher resection of the upper raw as done. Another case was operated on according to the Hertle method with reflection of the lateral nasel all

3 The reports of Kupriumoff concerning the choses of operative methods in relation to the an thropologic characteristics. In dolichocephalic per some the tumors at the base of the skull are reached more easily through the palat whereas in brachy

expirate persons they are reached more entity through the none:
4. The classification of polype at the base of the

skull as a condition for the general surgeon or the rhizologist. In the thor courses the sooner the patient consults a rhinologist the sooner an accurate diagnosis will be made. A recurrence will also be recognized by a rhinologist sooner than by geon. A similar picture is presented by curcinous

of the luyuz, the promose of which depends spon timely operation. On the basis of his expenses the author comes to the conclusion that the surroal treatment should consist. I the most conservative operation possible following early diagnosis

WALCOUR (Z)

Swershewski, L. Intrament Cophelocries (far Frage der autrassellen Caphalocales) Mahr J. 1911 1, 780

This article is report of its cases. The first at that of a garl y years old. A growth removed by operation from the right nasel cavity was diag noted on microscopic examination as a cephalocele but later more thorough examination showed that the structure of the tumor was as complicated as that of terstood temors, but then abundant ad mixture of gious traus. The second case as a case of neso ethmoidal orphalocel in child 6) irs

old Operation as refused The a thor chambes ratrana il cephaloceles mio three groups () the anterior cephaloceles, that is, the courpon auterior cephaloceles which h through in the form of tumors in the nose, () the maddi cephaloceles, which penetrate into the auril cavity through the lamins cribross and (1) the posterior cephaloceles which may extend into the nasophatyngeal space and the posterior parts of the note. The first group offers no diagnostic data culties. The diagnosis of those of the second group a more difficult as timully they resemble polypt or tumors growing from the upper nazel passage. The early appearance and slow growth of the turnor the displacement of the resal septum and the one soled nom of the process are valuable diagnostic features A certain diagnosis can be made only on the band of microscopic examination and an outflow of circbrospenal fluid when an tempt is made to remove th growth partially. The posterior cephalocele is in

ually associated the other congenital changes in the skull and the bram The progress of anterior and middle orphaloceles is good but that of the posterior forms is less favor-

I cases of anterior caphaloceles the extripation of the tumor followed by plastic closure of the bone defect comes up for consideration. In cases of middle cephaloceles a waiting policy hould be adopted if non suppurative complications set in the growth should be removed intranasally but if supporative complications develop and there is escape of cerebrospinal fluid, extranasal opening of the nasal sinuses with plastic closure of the bone defect a indicated Posterior cephaloceles are vo Hours (Z) moperable

THROAT

o. D. Rasection of the Supersor Laryngail. Nerve in Tuberculosis of the Larynx (Cober de Blulo, D Resektion des N. hervogens sup bei Larvastuber kalone) Tuberkuler o t,

As the author was unable to decrease the pain and rough of larvageal inherculous with the usual surgical measures, he decided t try radical treat ment in the form of resection of the superior laryn geal nerve. In the beginning, he applied the operation only to senous hopeless cases, but as h became convinced of the ease of the technique, he tried it also m I ght cases which were not benefited by cuettage and the use of the galvanocastery gether twenty five resections if the superior larvin goal nerve ere done (twenty patients bilateral resection in five cases) I seven cases the condition as unilateral

The superior laryngeal nerve may be exposed from within through the larynx pharynx or from without by way of the neck. In the latter procedur it may be sought through horizontal increase run nme parallel with the border of the thyroid cartilage or through a vertical meason along the border of the sternoclerdomastord muscle. The 12thor prefers the horizontal incupon

The operation is done under local aniesthesis in duced with a per cent cocame adrenalm solution or per cent novocame drenaha solution. Only the neuroctomy meli causes pain. In some cases the pain radiates int the ear (four times in twenty-five

Occasionally the search for the superior CLEAS) lary negal nerve is difficult especially when the space between the hyord bon and the pper border of the thyroid cartilage is narrow. Moreover the surgeon may mustake the border of the hyord bone for the bor der of the thyroid cartilage and may penetrate at higher level than necessary reaching the hypoglossal matead of the superior laryngest nerve

After the operation the nearby lymph glands of the neck and the aubmaxillary glands become as I len but the swelling disappears in the course I a few days Occasionally the arytenoid and the ary epiglottic folds also swell. Swallowing the wrong y which usually occurs in patients operated upon

serious complication

In the author a cases the excruenating pain disappeared entirely after the operatio and there were recurrences in the four or five months during which he kept the patients under observation Angesthems of the larvax results from the resection of the superior laryngeal nerve panesthesia and m tor disturbances of the vocal cords were never observed. As the tactile sense remains normal even after bilateral division of the superior lary need nerve, the inferior laryngeal nerve or the rami communicantes which unite it to the superior lary need nerve must contain sensory fibers in addition to motor fibers

In the autho opinion resection f the uperior baryogeal nerve is necessary in cases of severe dysphasia in hich other remedies cause no improve ment. In cases of analateral developme t of the tuberculous it may effect cure Energetic local treatment may be undertaken afterward. It is not dangerous procedure Simple resection of the superior laryngeal nerve

by Hoffmann method does not give permanent results therefore t is better t inject alcohol into the exposed nerve

The article is supplemented by an extensive bib. hography WALCKER (Z)

BIBLIOGRAPHY of CURRENT LITERATURE

GENERAL SURCERY - SURCICAL TECHNIOUS.

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AL ACT

SURCERY OF THE HUAD AND NECK

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Supplementary to

Surgery, Gynecology and Obstetrics

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OF THE ORIGINAL CONTRIBUTIONS WHICH ARE ABSTRACTED IN THIS MUMBER

INTERNATIONAL ABSTRACT OF SURGERY

FERRUARY 1923

ABSTRACTS OF CURRENT LITERATURE

GENERAL SURGERY—SURGICAL TECHNIQUE

OPERATIVE SURGERY AND TECHNIQUE

Taylor F B Terry W I and Afraces, W C. Improvements in Fre-Operative and Foot operative Care J in U in 9 km 578

I group of a patients, of whom as had had had had reparations, and of yas crits, addoommal operation, the authors studied the moderace of pain and omit mag m () (hose ho had the purped before and after operation, (s) those who had not been purped before but had heen purped before and who gives in had not been purped before and who gree given no means or exhibiting for t least four regions on means or exhibiting for the set four

d 75 after operation

The mussion of the pre-operative pungs had no definite mfunction on the wontime, but reduced the modence of pean in bloominal cases from 15 f. a great Relaying prings the postoperative purperchared the medicane of oriniting from 45 f. so per cut in the bothoganial cases and from 20 to 4 per cut in the obtainal cases and from 20 to 4 per cut in the others 1 both groups there as a more compliant of pair ben the postoper the purges of commiss acre as thield. Hence a number of objected as all the more confirctable if p en centers as

son as they are needed: and in the expulsion of gas. The authors conclude that calibrative should be ribbeld for as long after oper to as possible OV (entry patients not rev. purge of enems for in d.) after operation notes, showed ill effects of a ward haid spontaneous boxel movements. I the Other cases an nem the staft day has effectfual

Burns C Benger M D

Mayer A. Postoperative Adhesions in the Abdeminal Carity (Deber postoperation Adhaessoom in der Bauchbockie). Zestratif Gyssek. 92. vin 440.

mts secondary laparotomies fiter generological operations aboved the following result. Of surty cases of generological laparotomy fits t (87 per cent) aboved adhesions and eight (1 per cent) aboved as of the surty fit of the cent aboved no adherious.

Of thirty seven cases operated on for the first time outside of the clinic, thereviewers (to per cent) showed dhesoons, and of twenty three operated on for the first time the chinc, fifteen (65 per cent) showed dhesoons deglit (35 per cent) showed no adhenous

The development of adhesions is dependent upon imperfect assigns, incomplete heriostasis, and inscription and incomplete the profession and inscription and incomplete performance of the times. The author does not accept the theory that there is a predisposition to the formation of adhesions at certain periods of life, or that adhesions are covered to a peculiar constitution such, for example as the astronic habiton of Soller A triung fact in the cases crossed was that in those in which pregnancy or credit but even the laparon men there were no adversed but even the laparon men there were no adversed but even the laparon men there were no adversed.

I addition t perfect across, accurate hermostams and good peritosustation, its following factors have been suggested as of importance in the pre-ention of postoperative addressom (1) the vind since of paisting the abdoennal will be with soldier (1) the unform of humanol and (1) the production of postimoperationeum t the close of the laparot of postimoperationeum t the close of the laparot own. M yet becarer than no objection to the use of sodine. With regard to the introduction of humanol bet at cert dark this has been done for my years, but decuive caulit have not been seen and adhes soon are demonstrable. See present the production of present perfect of the production of postimoperationeum t the end of the present of the present of the present of the present of the presence The postimon of postimoperationeum t the end of the present of the present

I conclusion, attention is called to the difficulty the disposar Frequently there is a proposar of adhesions in the bacter of adhesions in the bacter of adhesions, but here may be also adhesions without appropriate the same proposar of the demonstration of postoperation does not in the aid of postoperationeum and the New participation of the same properties of the

ARESTREE!

Rost, I., and Ellinger: Why is the Escaping Blood Dark Colored in Too Deep Narcestal (Reshall mt bei au tiefer Narkous dus madiemende Blat denkel geforetel) Unrachen med II hander

During operation under narrows it is not eny nusual to see the blood anddenly turn dark, even when there is no obstruction t respiration. The authors studied this remarkable phenomenon experiments on cats and found that it is the to

raethe morlobu The methernoglobs could be demonstrated in pure ether narross, in chloroform narross, and in mused hydroge narcoss: Because of these finds as the authors are mel ned t timbute the occasional appearance of hemoglobanura and th anaema observed after reneated narrows t the breaking down of the red blood corpusches - rth thrombons in the internal organs. The formation of methernoglobin does not take place during narcous of short duration even her comparatively large quantity

of amenthetic is used. Methemoglobs remains de monstrable in the blood for some time, but at the end of twenty four hours has usually desponared

Behrendt The New Ansetheria Procedure of Gauss and Wiefand (Das 1900 Betamburgerer fabren nock Genes and Warked) Zestrabl f Gyenner's all, and

As claimed by Welland, acretylene produces effects similar t those of laughing gas Experience with it is so cases is reported. Acetyless mixed with oxygen is used. Anesthesia is produced i from one t & e sunutes and the w kenzes occurs still more quickly. Uncom-cromosen, austibena and reluxation of the abdominal wall are obtained with suitable mixture. The heart and resouration remain uninfrienced but the blood promite race somewhat behivation is prevented by morphise and acopolamine. A usea does not develop. According 1 experience up t the present time, this amouth the n harmi-sa AULIN KAMPER (Z.)

SURGERY OF THE HEAD AND NECK

HEAD

Friedland, M. O. Sursical Operations on Granhot Wounds of the Skull and Its Contents During the War 1914-1917 (Ueber charargache I agrife bei Schusswandes des balandels und seines Inhalt nich den knegerishringen 94-97) Ares

A series of early cases of penetrating guidahot wounds of the skull are reported, tharty-eight of which were operated upon by the author and t enty by other surgeons. An exploratory incision in indicated every case of uncertai diagnosas if the bone is found to be ntact, nothing further should be done Small splinters of the lamina vitres beal in the presence of an tact external layer smoothly of bone

When there are facures penetrating the entire thickness of the bone, exploratory trephining is indicated. One or two trephiae openings 3 t. 4 mm in diameter make possible the examination of the lamina vitres, the dura, and the subdural space

(hematoms) If necessary the trephne opening pay be enlarged with chief

In encephalitis and supportative metango excephali to the treplane openings must be large. I ten cases of encephalitis and meningo-encephalitis there were seven deaths. The clinical pecture of acute suppurative encephalitis as any typical After comparatively long period of well being protrusion of the brain occurs with high temperature and slow on the pulse. The pecrotic masses are then thrown off and the general condition improves, but after fen da or ceks there man aggravation of the condition the high temperature and slowing of th pulse return, the protremos enlarges necrotica

tion occurs in the cent and puress supers nes Please and followed by improvement and again by peravation the accrotization of the brail increas my currenterence, and come and de th occurrence after three t five recurrences. The foreign body is

frequently the cause of the progressive encephalitis Of twenty-two patients, eleven recovered, three ere benefited, and eight died. According to the statustics regarding on persons with injuries of the bead, forty three died on the battle field, forty eight died in hospitals along the line of evacuation two

died the reserve hospitals and only seven survival Lifte, II L. Infection of the Shanoid and Lateral Sinus Report of Missteen Cases Surg Come & Ohn 9 EXX 4 8

CARDONY (X)

The author reports senses of ameteen cases of infection of the sigmost and lateral sinus observed at th M yo Chanc during the past five years. These ere selected from series of more than 500 cases of mastord thereig in hich operation as per formed and more than go,000 macellaneous cases xamused in the Far Nose, and Throat Section The patients has been divided for discussion into four groups

P teests the involvement of the aug Great most arous by phiebrin or non-obliterating throm-

The jugular vein as not operated on primarily in any of the eight ceases in this group I three cases subsequent ligation was necessary because of the patient condition

The leacocyte count was relatively high except in three cases, in two, the conditio was really less coperus. One patient as extremely ill and had a very virulent infection of the blood stream due t harmolytic streptococcus

Blood cultures were positry in four cases while one, that of patient most critically ill, cultures were repeatedly negative N two patients were in fected with the same organism and no regula in terval elapsed before the blood culture became

negativ The temperature was fairly typical of separa in five cases, and in three the patient was almost

atetode Choked disc occurred in three cases, being probbly the result of general t vernus. Blood transframe was used in three cases as supports e

messore patients who were most critically ill had

phiciate a thout thrombour

Patients with obliterating thrombons Gress Of the seven patients in this group primary opera tion was performed on the very in two because bleeding did not occur from the bulb end of the sinus I three cases the operation was performed on the em secondarily because a poptoms and signs of serious developed during the postoperative course and the second operation bleeding did not occur from the bulb end. In one case the disturbance may not he been recognized tith primary operation I the other two rt may he resulted from injury to the mous wall. In two cases, in buch the cin was not desturbed, the patient had an uneventful con valencence. The blood counts ere not high eve

in the presence of infection in the blood

patient's general appearance seemed to be the best

index of his condition I six cases the blood cultures were positive in one case no culture was made. The patie to were all afected with different organisms. The tempera ture curve was quite characteristic in four cases, and in one it as definit by misleading T Detients ere early afebrile Choked disc occurred This patient as given transfusion ID one case became of low harmogloban and the effect was mmediately beneficial I general, t m y be said that the patients in this group were not so extremely all as those in Group I no case was the er resected

Gre # 3 Patients who died w thout submitting to operation. The two patients in this group ere so extremely ill and the infection was so over a belm ing that operation was not itempted. A septic sore throat in one case made t difficult to determine th true source of the sepsus even in the presence of the ear supportation. The other patient becam men tally disturbed. The soft parts discolored when handled, and the sate of the needle paneture for the blood culture began to slough in twenty four hours Green 4 Patients who died and in abom the

discuse as not recognized chinically. Of th. two Promots in this group one showed the soult of expriscopy emia, operation having been delayed too long. The cur was examined to days before death ead th history was typical, but sinus infection was

not uspected because the patient was After the patient had died the home physician gave the history of previous chills and high fever i jected guines pag died of miliary tuberculous. The patient's blood was positive for luminolyti treptococcus

The ther patient had thromboars of the transhit same which probably ecounted for symptoms rug greating brain abscess. Headache, drownness, and mental anathy may be caused by circulatory changes secondary to thrombons of the traight inus

ther draw the following conclusions with enerd t the treatment of olvement of the ug

most and lateral sinus

Patients should be treated advaid ally rather than by one routine urgical procedur

Primary operatio o the | gular wein is not indicated unless bleeding does not occur from the loser end of the sa us 3 The operation on the vem may be safely de-

layed if both ends of the mus bleed freely. In none of the cases was the em resected Too much dependence must not be placed on

laborator, finding. The patient general ppear ance is a fairly reliable indic of his condition s Blood transferso by the citrate method, with

care t group the patie t properly is a valuable supportive measur 6 Unnecessary handling and examination should

ided as they may interfere the co valescence Forced feeding quiet pleasant urroundings, and cheerful ursing are important factors

8 Patients with lung complications may recover

Thromborn of the straight sinus may cause symptoms and mans of brain abacess

The prognosse may be extraded as fairly good if well directed most ures and timely surgical interference at employed T & HAMEE, M D

Reverthon L and Worms, G Spontaneous Oc cupital Procumetocole of Mastold Origin Operation; Recovery (Pneumalockie occupitale spontanée d'orag se masterdienne opération auéri son) B II et mem Sec et cher de Per 0 प्रथमक ००१

The author case was that of soldier aged cars who had depressio the auxe of fifty-cent paece in the right occipatal regio Complaint age made of beaduch buch began bout aux months slight fall on the head a thout immediat serious results. A few months later the depression gave place t tumefaction which increased slowly the same of mandana orange The swelling showed no signs of inflammation and was clearly an arreyst it mercased succe effort and could be educed by pressure. The Y ray examination show, ed the entir masted region to be filled with air The vacuolar aspect was continued also over con siderable extent of the conchal and the petrous por tions of the temporal bone and the parietal and occup tal mones. The mastered on the opposite side shouled sumilar cavitas

A large focusion was made over the tumor and an osteroplastic operation filing the oscena breach to esteroparosteel fragments was done. The bottom of the cavity was formed by the internal table which was very irregular. The sur collection was clearly subpersosteal. A tunnel communicating with the masteld cavities was found.

In the authors opinion there had been spon instead otherwise of the circum tables which was thinsed by the process of poermistration and discount of the process of poermistration and discount of the process of poermistration and otherwise as continued, min overcom and probably process of the process of th

Aurray collected fifteen cases of frontal, and that teen cases of marind, preumatorele The authors find that to date, notinding their on case, only twenty muscuase of mastend pneumatorels have been reported.

A RESEAL

Renisioni. A. Infantillum of the Hypephyseal Type and the Argyl-Rebertion. Sign Assetion of the Company of the Company of the the That Ventrale Latituting the Dyte Layer Bat Not Invaling the Infantises up the Hypephyseal Regions (Infantises to the Hypephyseal Regions (Infantises the Hyperphyseal Regions (Infantises) and tensors discreptle as press of layer that income conference and the Company of the Comp

ad i Mi di la The case reported by Ricaldoni usun rance the question regarding the symptoms which must be attrabated to functional disturbances of the hypothyas and the infundibular region. The patient was boy of 8 years with infantisism of the hypophyseal type and diabetes marpedus. Growth had been arrested mace the thirteenth year and for the past t o years there had been intense thirst. Constant polydipsis was associated 1th the duly charination of from 500 to 4,000 com of unne. The only eye aren as the Army B-Robertson pupul Constant ntense headache, prodominantly occupital, as anocasted with omiting Death resulted puncture on the day of death showed that the cerebrospinal fluid contained ures, albumin, and hamphocytes Polyuma persisted t the end

At autopsy tumor adherent t the lateral walls was found in the superior thalamic part of the third ventricle. The growth reached t manipum in the optic layers, especially the right. Histologically the tumor was round celled sarroms or perhaps glossrooms.

The hypophysis as found to be macroscopeally acrued hardogeally there is no trace of acoptatus infiltration but there are some slight hemorrhage and hypoperte invasion in the posterior love specially in the central part. The para intermedia, the stall of the hypophysis and the infinishishir reason showed no chantra. Pressure from the tumor was exerted upon the triguate and the corpor calleonin. The duabetes maphets sught have been the result of the second ary and indirect lessons of the posteror lobe of the hypophysis of compression of the mixablelian consecutive t disturbance of the circulation or entricular hydrops.

The arrest of development establishes nors again. The arrest of development establishes nors again that excelled hypophysical disturbance in the property of the state of the property of the state of the property of recognizations of neoplasms, although usually the fact are disexcitable mesencephalic The antense of the hypophysis also sed every lettle unto I should be supported by the state of the hypophysis also sed every hittle unto I should be supported by the state of the hypophysis also sed every hittle unto I should be supported by the state of the hypophysis also sed every hittle unto I should be supported by the state of the hypophysis also sed every hittle unto I should be supported by the state of the

The Argyll-Robertson sign in this case was quite independent of syphilm, all tests for this condition being negation.

W. A. Bernaue.

Silbert, S. A Case of Brain Abscess of Uncomed Ethology J Am V Azz 9 2, hruz, 2417

Silbert reports—case of brain abscuss resulting from the direct introduction of 'n infected foreign body into the brain

Six weeks before he admission to the boughts, the rubject, boy aged 5 cars attainbled and fell on stake. The remaining mult would not be left used the face became safected and discharged considerable possibilities and discharged considerable possibilities and had some fever. Three each before he entered the bought the chief began to complain of hersitache and had some fever. Three days before his admission the headache became to severe und the fever so high that he as part to bed file than became delivers. When he was brought to be the control of the severe delivers when he was brought to be a retracted and there was marked openhore one. The right poul was injuryer than the left, and both reacted singuishly I light. There as marked striftenes of the neck and bilateral Armin gain.

Automay showed a small, firmly healed wound about on an length on the left aids of the face mid w y bet cen the outer angle of the orbit and the ex ternal addory meature. On removal of the shall cap and reflection of the dura, the surface of the brain was found t be covered by thick purulent The left temporal lobe showed marked fattening of the gyrs, and flucts tion as noted on palpation. Under this area, as large abacess cavity filled with thick purulent material. The dura overlying the abscess showed perforation, and probe introduced int. this opening led directly through similar perforation in the squamous por tion of the temporal bone to an incess under the temporal muscle. I this tract several splinters of wood ere found H A. McKmoure, V.D.

Particle The Reconstruction of the Infector Maxillary Arch by Autoplasty (Nucleiberteilung des keferbeguns durch Avioplastik) Zentralli f Ch. o. zlry olio

The peculiar anatomical relationships of the aferior manilary such make healing difficult. As com-

pared with the peg method and the interpolation method Partich bebeves the graft method with splitting open of the fractured ends is safer and more con enent because a the most varied positions of the fractured ends it makes possible the approxima tion of freshly bleeding bone surfaces, a condition

f oring rapid aggintinatio and bealing if chips from the crest of the thum are used in the implantation

In fifty fix of sev nt six cases operated upon complete healing in of the implant occurred. The numerous cases re-examined after several years demonstrated that the implant grows and unites completely with the arch of the inferior mainlia. A transplant examined histologically at the end of three ecks showed no regressive changes and presented fresh bony sprouts over its entire urface VALENTIN (E)

Davis, W.B. Harelip and Cleft Palat Deformities Some of the Types and Their Operative Treat ments. Ann Surg 9 brevs 23

Complete and incomplet unilateral hareby gen erally require the same plan of treatment. In th latter there is usually ery little or no muscle timene between the upper sagle of the cleft and the floor of the postril Incomplet clefts are con erted into

In outlining increases for the correction of barelin the distance is measured from the mid point of the foor of the nostral to approximately the point in th same mantal plane to which the free margin of the hp would come if it were normal. The upper point of the campers being kept in place, the lower is ro tated laterally to the vermalion border abera mark s made on each side. Incisions earned through th entire thickness of the lip t right angle to the skin surface and following the lines outlined will give surfaces for pproximation Before approximating the margins th upper lateral portions of th lip should be freed from the maxille.

In complete smele harelip and cleft palate cases the hp and ah colar cleft should be operated on first, usually between the tenth day and the third month The cleft palate may be closed bet een the twelfth

and the twentieth months

ing part is closed a th black silk

complete defts

A wide alveolar cleft is repeated by partially dividing the buccal side of the alveolar process, just posterior to the canine region on the opposite side A premitick fracture is then produced and the edges of the cleft are brought together after they have been denuded of mucous membrane. The margin are held by means of silver up Closure of the remaining cleft of the pelate is

done by the Langenbeck mucopersoateal flap abding method. An additional flap may be taken from the lower edge of the vomer if necessary. The margins of the flaps are approximated with interrupted tures of \ oo wire, as far back as the soft palat where one on end nil, mattress is used. The remain-



application of the Thompson method of determining the points for the lines of increion for the correction of harelip

In bilateral harelip cases the wide separation of th margins necessitates more extensive freeing of the lip from the alveolar process. Stay entures of silkworm gut are used to elieve tension

Incomplete union in the hard palate may be epaired by my one of three methods () by mak ing lateral incresons just a thin the alveolar process n each side, loosening the flaps, and approximating them in the midhae as in the Langenberk operation () by the Lane flap method or (3) by bringing part of the horizo tal processes of the maxille and paint bones medially with their attached soft his FERROR K HANNEL M D FUCE

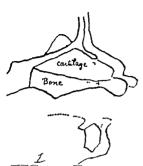
\eau, V Operative Treatment of Complete Double Harello Ass Surr or live, 141

The author reports a series of thirty five cases of complete double harehy operated upon for the first time or retouched

The premarilla should not be exceed as its preservation in ea a projectio to the upper lip leau operates first upon th hp, correcting the palat later H closes the lip by two operations first by pulling back the premaxilla, and second, by saturing the soft parts The premarilla is operated on t the age of two or three months and the len as sexed one or two months later. The palate may be closed during the second year

In the first operation the sept m obstruct the polling back but the projection of the nose depends upon is integrity. An accessor about a cm long is made behind the premarilla alo g the lower edge of the septum and the personteum elevated A wedge of bone a emoved with the forceps as show in Fig 1 and the premanilla duplaced donns ard and back ard

The lateral edges of the premaxilla should be trimmed off before the displacement is effected It is fixed into position by means of silver threads person into the marille and the premarille on rach side In bringing parts of the lip together com plete restoration is not attempted, the object bear only to form a bond of the soft parts in fro t of



three mentle-old child with com

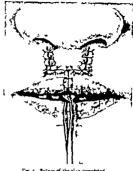


Fig. 1. Sulars of the skip completed



the drawn-back premarills. This means of fixing the premaxilla is much more important than the deep ligation a the the silver threads. The tamucocutaneous edges are freshened and the skin m satured. One large tension suture is put on the under surface

The restoration of the lsp is done in two opera tions The qualities of a well restored lip are (1) suppleness of the cutaneous parts () rectangular macocutaneous lines, (1) vitality of the muscles or philtram t means the conti uity of the orbicular (4) projection of the mucous w thout a notch in ta lower edge and (5) normal contour

I the reconstruction of the lip the skin, muscle and mucosa must be taken into consideration

The memory in the slin should be x 3 from the mucosa t avoid the piece of mucous membr ne that remains. The lip is nearly also; too high became subsequently the atrophied philtrum be comes larger

The muscles should be brought together on efully

to gry supplement to the lip.
The chief fult of the classical operation for the epair of the mocous membrane is removal of the mucosa of the philtrum. It is the lack of murous membrane that causes flattening of the Up

The technique of making the kin meason is The line c & s tr ced a th great shown in Fig. care. It passes as y from the mucous membrane part and only through the akin. The angles & and c are ery clearly cutright angles

At the level of the loser edge of the philtrans all

of the muscle is conserved.

The cutting of the lateral part is done in the line which metudes all of the mucous membrane and about 2 mm of skin. It must be perpendicular the direction of the lin. The increasin will include the inner and outer mucous membrane

When the bistoury arrives t the f t makes the line for which is 3 mm long. This approaches the muco cutaneous line, but does not cut t

The line g & is drawn oblique by in leaving the mucous membrane

The part included but een th points b f is re moved with care to penetrat into the nostral in order to diminush the preading of the none. The result after the akin has been sutured a show in Fig. 3 In seturing the muscles the finest catgut is used Vascular alk is employed in the skin I seeing

the macous membrane the finest borsehair is used The lower part of the philtrum which is attracted behind, must be sewed as show in Fig. 4

Farvot k Haver, VI D

Pichier II A Large Operath Defect in the Platrym Covered by Primery Transplants then of Skin Flaps (Geomer operation Defekting Ractica durch promete Transplantation on Ober heatlarppches pedecki) Zentralk f Chir xia oro

liter removal, by) of the mouth, of some mous crited epithelion. It olving the left half of the

soft palate, the tousil, nd the left base of the tongue the lower part of the wou d in the remo of the tongu was covered by Thiersch graft take from the inner side of the upper arm. The flap wa pressed into place by means of a rubber upper dental plate and hump of dental compound to which thad been made fast a th mastraol a thats a ound surf ce on the outmde

Healing was uncomplicated, and t the end of fou days the grafts had healed in over almost all of th This procedure which Pichler applied t the soft palate in two previous cases, is based on th converse of the flat ound, in which the fixitio of Thiersch flaps is impossible the mouth sto Kentr (7) cavity accord

MECK

Tinker M. B The Desperate Risk Golter J Am Man 9 lmm, 19

This report is based on ,000 cases selected from

series of 3 8 which were under observation from Ny 94, to My 91 The author has found that persons with obstinate

gastro intestinal symptoms hypertension, and myo cardial insufficiency are especially desperate risks When names and vomiting apparently resulted from thyroid t terms alone and resisted treatment, the nations died. These cases are relatively rare but Tinker has seen four. For the past ten years he has not operated on cases with marked gastro intestinal unptoms. H. does not consider as favorable for operation any nations with hypertension whose pres sure cannot be educed thirty points, and he has not operated on any with pressure over 100 Prelimi nary medical treatment is of greatest importance in these cases and local angathena is safest for opera tion. In cases with myocardial insufficiency digit has should be pushed to effect. Thus, with general care usually brings such improvement that overation is comparatively saf Glyrosums with hyperthy road am as serious combination. When it is possible to get the patient sugar free h progresses el tively well after thyroidectomy and frequently emains sugar free without very trict diet

Local annathesia is indispensable in the removal of gotters causing obstruction to respiration. The thor does not accept the tatement that any case of malagnance of the thyroid which is so far advanced that diagnoses is possible is hopeless for operation of his cases of this type has a remained cured

one eight years and one more that ten years after the excusso of extensiv malignant processes in ol-ing the great vessel abeath, the larying and the traches as well as the thyroid

I conjunction with the metabolic rat inditachy cardin Tinker trackes considerable importance to lymphocytous in determining the risk cases H advocates preliminary ligation and in the cases of extremely torac patients ho come to oper ation wie wake in upst of preliminary preparation

th morphine scopolamine the I minution of the

psychic element by light nitrous orade-usygen anesthena combined with local anesthena. The many stage operation which can be stopped and the outside packed with gatter. here is doubt as t

whether it can be safely completed as not sical, but all save life in desperate cases. Tinker does not advocate the ass of radium or the V-ray in the treat ment of hyperthyroidmin. S. I. knows. M.D.

SURGERY OF THE CHEST

CHEST WALL AND BERAST

Bioodgood, J. C.; Timmers of the Branst. \emissed Had gra, xx, 335

After thirty years of investigation the author and those of the beward is derived select for eather as ever. The problems are: () to me the pienter with causer the best chance of cars; () is says the breast in cases of beings tupor and (j) to determine the cates if a which operation is costra indicated entirely. Formarty Bloodgood felt this is as contracted with a diagnosis which called for no operative interference in the than per cent of breast cases but indicate the diagnosis which called for no operative interference in the than per cent of breast cases but indicate the diagnosis which called for no operative interference in the state of the cases of the contract of the case of

A discharge of blood from the napple is not of studi a sign of cancer and the breast should not be removed because of this symptom alone. Pain in the breast is not sign of cancer when it is usasso-

clated with other encience

Lactation leaves at effect on the breast in damples which may be mistaken for evidence of cascer. A small times which is visible in moderately normal breast is usually malignant. The average breast in lumny. It is most lumny at puberty and very lumny.

during prepasary.

I surpact supportion of a temor the tubor curs does no the immer states of ensuing it. In doubte's case the diagnosa must be made it the time operation by inspection and frozen section. The working rule when there is doubt as to the character of a timer is it do the complete operation for cancer in case of bits dome cryst it cryst slove should be excised over if in culting it out other cryst and dated docts are encountered. Faisire to find pall pable hump easily when cutting down as segretic of mispanie?

S J Sacras, M D

HEART AND VASCULAR SYSTEM

Mills, H. W. Hydatid Oyets of the Heart with Report of a Case. Surg Gyest & Oks. 022 XXIV ACC

The case reported was thit of woman 36 years of age who was found dead. Autopsy revealed by dated cyst of the right extracts 5 cm in diameter.

had also eyer of the right.

Inch showed the typical immunish eyet wall. No daughter cysts or acobers were found: I the substance of the right leng on the inner sol of the lower lobe were four cysts the size of walnuts. The left leng as sormal

A primary hydated yet of the heat a formed by an embryou which has summonisted both the hepsel and polinociary defines: Because it is that yet reprinted to the control of the control of

Dahenelidze J. L. A Case of Suture of a Puncture Wound of the Assembling Aorta (Em Fall on Nakt oner Suchreticizing der Aort messiden) Manulings Petrograd o

The author case represents the first operation for puncture wound of the ascending aorta

The patient, laborer so years of age, as a brought into the hospital in an informaticd condition. It harps umber of incomed wounds on warnous parts of his body. His palse was o. The heart boundaines and drill areas ere normal. There was no poes mothers for kernothers or kernothers

The wounds on the temple and wratt are suttred. At the left of the sterage at the lared of the first intercontal space and the second rib, was wound 5 cm long. When this as beld open, 3 cm bleeding wound of the steramin was exposed.

The patient' condition gives progressively worse too how our site admission percolar round was heard on entertaint of the heart respiration was distribed, and these was grapped on a commission of the state of contact duffness Sagns of an economistion of the state of contact the state of the state

monary sorts, or the beart The patient was operated upon under ether angesthesia eight hours after the many. The ound as enlarged down and and to the left with the formation of skin and muscle dap and the resection of pieces of cartilage from the second and third ribs and of piece of the etermin. The layers of the plears, luch were unanjured ere present tome and with blant instrument The ound found to penetrate the fatty tissue of the medias turum When the persearchum as split length wise blood, bubbles, air and froth ere evacuated The right struck and the site of emergence of the sorts were then exposed on the right the pulmonary sorts was visible. On the anterior surface of the sorts, om from the heart, and attented t an augic t the longitudinal arm of the nort was

8 mm long from which blood flowed in thin stream. When the second enture was attempted there occurred from the puncture channel heavy bleeding which could not be stopped by tamponade for two minutes and led to the formation of a hemstoms under the selventitie. Two more button sutures, which included the hamatoms, caused complete harmostans. The sutures in the sorta beld well. The pericardium was washed out and sutured Uneventful healing followed During the first few days following the operation the temperature went on to 381 degrees C. The pulse was 00-04. At the end of four ecks the patient was discharged

COLEG! The author refers t the work of Perthes published in 1807 in which were cited to the cases of wounds of the aorta not followed immediately by death. He considers it both possible and necessary bowever t treat wounds of the sort at once H points out the difficulty in diagnosing this type of injury as a 11 as injuries of the heart, and states that only the situation of the external wound, the pecuhar sound, the progressive deterioration of the patient's general health, and the respiratory difficulty in the beence of signs of injury t the lungs, led him t suspect

a injury to the organs within the percerduum and t operate In the exposure of the heart the author fa ora

progressive widening of the channel of the wound with resection of the ribs and of as mich of the teraum as necessary. On the basis of five cases of cardiac injury on which he operated with f vorable results, he recommends complet closure of the perscardism and the pleura if possible an extra pleural operation should be done

In the case of inpury to the north which is reported there were number of circumstances which favored a good result. The wound was small and partly thrombus which prevented severe bleeding, the sutures held well, and an extrapleural operation was possible SCHLICK (Z)

MISCELLANEOUS

Keuler L. H. Dusphragmanic Hernla-Non Transmatics With Report of Fests Original Cases, J Vissers State W Au 0 nx 46

Congenital deaphy greater hereis is infequent its chincal history may so simulate that of other conditions that it may not be diagnosed during life Imperfect development is probably the primary

The heraul opening m ; be at any point in the disphragm. The author had two cases with about rully large openings for the orsophagus and tw cases the openings through the dome of the dia

phragm Cases ha e been reported also in which the opening was in the right or left side of the disphragm Pain is usually present in the chest. The percus sion note is resonant and the breath sounds are

absent There may be dyspaces, regurgitation of food, or romiting Gastro intestinal symptoms may be absent. The chest shows no change in appear ance.

The hernia may become partially strangulated I secre may pees into and out of the thoracic cavity The condition is not fatal unless strangulation occurs The X-ray is the important factor in the diagnosis

Few cases are found the literature. The author reviews those reported during recent years. Most of them were diagnosed by the \ ray or at postmortem examination

Car I A ma aged 7 years, had always been troubled with shortness of breath. This was especially noticeable after eating. A feeling of oppression or of pain in the epigustric egon followed heavy meal or th drinking of a large quantity of fluid There was no history or sign of injury. The chest and abdomen appeared normal. The breath sounds were absent in the lower left chest. The condition was diagnosed as pneumotherax \ ray examina tion showed an enlarged enophageal opening in the dusphragm and the presence of about half of the stomach in the chest

Come The patient was man givears of age who complained of shortness of breath and irresular beart action with pain which was brought on by exertion and heavy meals. There was no history or sign of mjury. The chest and blomen appeared normal ray examination showed displacement of the heart toward the right, the presence of about one fourth of the stomach in the chest, and an open

ing in the disphragm in from the resophagus Case 3 A man, aged 40 years, complained of feeling of fullness and occasionally an cute pain in the epigastrium after meals. The attacks of pain were associated a th marked dyspaces. Vomiting usually ga e rebel. There was no history of injury ray examination showed one half the stom ch in the chest

Case 4 The patient, oman, ged 6 years for many years had had feeling of fullness after eating and retrosternal pain which was elieved by omit ing The first ment of the day seemed to cause the most severe pun \ ray examination show d that the stomach had entered the chest through the cesophageal opening. Under the finorescope the barrom first appeared abov th disphragm and caused acut distress. It then began to mas below the disphragm, taking the tomach Ith it twenty minutes the stomach was in its normal posi-tion. Tw. years after the operation the patient was still in good health WALTER C BURET II D

SURGERY OF THE ABDOMEN

ARDOMINAL WALL AND DESITORSHIP

Behle A. C. General Sentic Peritonitie and Ire Treatment, Verileges Med 0 2, XV. 16

The other quotes statistics t show that there has been a steady reduction in the mortal ty of

In he treatment etherma, he need as cleanant arent It beneficial result depend, not anon an authentic effect, but probably upon an imitation action which according to Duba, carries hyperamus increases perintalise and exerts a general topic action

Camphorated oil has been fected with the idea

of preventing raped absorption

general septic peritonitis

In Willis prepion ecoosus is not an important factor in peritonitis. If therefore opposes routing alkaline therans

Fromme and I nel believ that the first factoria taken up by the lymph cause coagulation and block nurther ness ee of bucters and i man intestinal pourshment does not enter the blood evels, and ranid exh untion, dry ness of the tongue and ereat thirst result. These conditions ar comlated by the diminutration of find

Bolton at teath 1 contractions of the durphrum with concomitant changes the abdominal and thoracic pressure for the lymph flow. Therefore posture and drugs flecting respiration and the driphragm are of importance

kach regards the omentum importa t la t ricidal, exudat forming, and absorbing agent The exadate is protective and possesses bactericidal

properties

I gonocorne perstonits associated ith tubal infection operation is contra indicated The thor contrasts present day trentment ith

th tof t enty seven years are Tormerl I rge person, with often third or fourth increson made hen the warmon sought for exudat the hers Is were turned out exact t was world th r use the gut was milked an enterestors; was

done or the low I was punctured to evacual the ges, nd the bdomen as irricated, sometimes permanent prigation being established. These proc dures took time and supped the p tient prolonged and recov rtabt Con aleacence

ers seldom resulted The testment grien tod commits in earl eradication of the source of infection, small cusion, and sentle removal of pus and evadate, the gut being kept ithin the belomen as much as possible. I cases operated upon early the belomen re closed, whereas lat cases nd walled off shareas re drained. The operation is brief and the quantity of angesthetic amili The patient is rested in sleep before nd after the ope ation nd rapidly regams strength there is less after treatment, the ound beth he primary intention, and the prisent is up

and about in seven t fourteen days. Catharties are a orded hen appendicus as respected

The thor makes the following summary When perstantin is suspected giv pothing by

month and no cathartics, operate as early as nomble t remove the source of injection, do no more than is necessary t eradicut the source of infection and do not damage the peritoneum. In early cases do not remove the expedit (course foreign material due t perforation of the stomach or large rent in the colon should be removed) and do not drain Place the patient 1 Fowler's position Overcome torami by subcut neous od rectal infusions of normal saline. Overcome debudration by the retal dimmetration of tap w ter or 5 per cent al cose and a per cent solium becarbonat solutions Apply heat over the belomen by thermorbore Support the circulators stem by cardiac atimula tion. If necessary my morphine to quiet the national

and control periotales WALTE C BURLET M D GASTRO-INTESTINAL TRACT

Offirer J C Hypertrophic Stenosi of the Priorus. Sarr . Italy 444

Congrustal hypertrophic stenos as first de scribed in 788 Perhaps the but of the earlier papers on this subject was that published by Harschipenne. in 889

The condition must be different ted from step oses due to carcinoma, cacatricial contraction follow me ulcer hypertrophic gestritis, syphilis, and tubir culates

The case reported by the thor as that of man cars of ge he aret consulted him in o be cause of symptoms of pylonic obstruction. The \ r. reverled pylonic obstruction and dilation of the stomach Gastric lavage also showed murked gustra. attention and diminished codity. On physical exammation the patient was found to be carbectic. The abdomen as distended its upper kill and smill hard mass as pulpable to the right of the midline t the level of th umbilious When the belomen as tarned periodic vex moving from the left to the right could be seen distractly The condition is di mound as carrisoma

At operation smooth annula thickening bout the consistency of artilage as found it the pylorus There as no involvement of the mesenteric glands and no school of excatneral scars. The stomach was enormously dilated and the pyloric orifice tightly contracted A typical Rammstedt operation as decaded upon A loagitudinal incision made in the priores down t the mucosa releved the stenous

mmediately

bollowing the operation the patient I once begin t umptor T dat he has go ned so lbs All gustric symptoms have drappeared. The treatment in this case differs from th t employed other cases reported in that only a Rammstedt operation was performed while in the others posterior gastro-enterestomy was done I E Brazzon M D

Graham, E. A. Surgical Treatment of Syphilis

of the Stomach Ass Surg to have, 449 It has been only recently that gastric syphilis has been recognized ath any frequency this be ing due largely to the Wasserman test and the development of gustne rocatgenology. In the masority of instances however the diagnosis has been based on more or less indirect findings uch as th association of suspicious lesions with a positiv Wassermann reaction, marked deformities of the stomach show by the \ ray but a thout the cor responding cachesia and anomia of cancer et

Graham has been unable to discover the liter ture case of gastric syphiles in buch the spero chetes were demonstrated. If does not discuss the diagnosis but in this connection effers t articles by Valls od Eusterman. The surgical complications include all those incident to ordinary peptic uker and those due to scar formatio in the healing process. The most common conditions are tenous of the pylorus, hour-glass formation and other conditions due to perigratine adhesions et Perfor

tion and harmorrhage has also be recorded The literatur reports thirt to cases of gastri syphiles buch has been oner ted upon Gastro enterostom) was done seventeen cases and section of the plorus in four. The procedure in th rest is not tated. Because the data are incomplet or unsated ctory the results cannot be interpreted accurately. In general the cases were mukedly ben efited and there were only to deaths one from nephritis and the other on the third day after oper tion Equally good esults ere at by resection

ad by gestro enterestomy The uthor reports three cases of poure thy

definit gestric explish which he has treated to of them presented type of lesson regarding hich httle is know. These are the cases in which there is moderat thickening of the entire tomach high is reduced in ize indishisance of pylonic tenous and gross deformity uch as hour glass formation and extensive pergenting adhesions. The eymptons consist of amiting pai loss of eight el T cases had positiv Wasserman reactions In one case nothing is done but pother gastro enterostoms m de thitome rebef J the other case thick first pyloric obstruction py lorectomy as done ith entire relief of amptoms

In those cases of poneralized acterous of the stomach rithout organic tenosis of the pylorus or bour gless formation the benefit t be derived from surgery is doubtful I the other cases resection of the pylorus ga unnormh good cauks aben stenome as present hile gustro enterostomy as frequently followed by only alight or temporary improvement. Graham concludes that on the basis of present experience pylorectoms in the better procedure O 5 Process, VI D

Sendder C. L. Gastric and Duodenal Ulcer Sarg 0 have 470

This article is based on 3 cases of chronic ulcer of the stomach and duodenum treated by opera tion

In the 7 cases of gastric ulcer the immediate mortality was 7 6 per cent

The remote results in 68 cases are kno n Ninety nine of these patients are practically well while nine report symptoms similar to those pre-ceding treatment. The length of time since the operation in these cases is as follows one year nineteen cases two years twenty five cases three years, thirty three cases four years, ten cases il years, eight cases my years three cases seven years, seven cases leven years on case fourteen ears, one case and sixteen year one case

The operative procedures were gastro enteros tomy forty seven cases excession alone six cases excasion and gastro-enterest my thirteen cases cautery and gastro-enterestomy fourteen cases sice resection, three cases gastrogestrostomy one case pyloroplasty ne case division of adhesions, tu cases and partial gastrectom twenty one CERC

In the 30 cases of duodenal ulcer the postopera mortalit was 6 per cent

The emote results ninet four cases are known Lights eight of the patients were well. The time claused since the operation, speed from eight to ton years

The operative procedur used in the duodenal cases consisted in infolding of the ulcer the application of omentum t the peritoneal auri ce of the ulcer and posterior gustro enterestomy

The general mortality for the entire group of 3 I F Brenco M D causes as 6 7 per cent

Crite. G TV Gestric and Duodenni Ulcer and Cancer A Surg 9 a, lazvi 467

Of 76 cases of lessoms of the tomach and duode um treated t the Cleveland Clinic ad the Laketsde Surgical Service dat on 560 are available These include 80 cases of carcinoma of the stomach five cases of carcinoma of the duodenum to case of sarcoma of the stomach 50 cases of ulcer of the tomach, 500 cases of ulcer of th duods um, nd fiv cases of tumors of the tomach (undifferen tuated)

I the early cases of this series the mortal t was high but th impro ed technique ad man agrement especially pr operative cure the mor tality in the last of cases of gastro enterestomy and election was 8 per cent. In simple gastro enterostomy the mortality was less than CHIL

Of the 560 cases, 450 came to operation. Th operations were as follow eighty-one to stage and temporating operations, 30 gastro-enterest mes, and forty-eight esections of the stomach Information has been obtained regarding 1 5 pa tients as follow

PATIENTS LIVING AFTER OPERATION FOR DUODENAL AND GISTRIC CANCER AND ULGER

| Condition | = | Ou is too year | Two to these fract | There is | Over the years | Tuesl |
|---|----|----------------------|--------------------------|----------|--|----------|
| Corclasion of pionach | | | | | Sections of the section of the secti | , |
| Security of development Sear of minimach | n | | | | ler so reier fer so reier to for reier to for reier fer lessin to to great | * |
| Ukar al dandenam | 6, | er Terreta e | () es spec | | for front to to y years for front to so years for front on to years | Lip. |

PASTERIES DITAG AFTER LEAVING HOSPITAL Cardisons of the stonach-13 deaths

Arcinons of the stontack—33 deaths

Less than 3rs 3 (accluding moper
shie cases)

3-5 years 3-5 years Net known y (including 3 imp able trees)

Ulcer of the stormech—6 deaths Less than 1 year

g-5 years Not known 3 (including moper ble case)

Yot known y (including inoper able core)

T a questionnaire sent t all patients operated upon more than one year age, sury au repetiver recovered. Eighty t o per emi reported that their symptoms are referred, bleer cent affect their symptoms are referred, bleer cent affect their symptoms are referred, bleer cent affect the operation, operated to be per cent bits a required to care for shounds trouble succe their operation, or received some postoperatis, treatment, it had gruned in weight from operative resument, it had gruned in weight from the success of their contractions of their contractions. The study felt to the following coordinations.

The operative mortality is now reasonably

In the body as whole, the presence of focal fection or t intomication, nd the patient's work,

habits of enting, and food should be considered as eff as the local siler. The results of treatment are better a cases of

3 The results of treatment are better in cases: dividenal select than in cases of gestric inter 4 Victoria circle in no longer seen

5 The development of peptic ulcer is dependent upon the curative effect of the treatment. It is part of the disease rather than result of the operation.

6 In general, the Sippy treatment about be tried first in the scut case. If this does not give definite improvement in the cells, operation about not be further deflyed.

I E BRANCOW M D

Personn E Investigations on the Histology and Healing of Gastric and Decdenal Ulcer (Unter sectionate where the Histology and do Holman erhacitness for Vagen and Dundenstruckweens), Act heng Scare o 1 345.

In ers recently published ork on the instudent of gutter sider Askanary contrades the theory advanced by Rokstanaky and Harver that the beat and the contrades the test of the beat and the leaf of the test of the contrades the formed connectivities the leaf and the test of the contrades the contrades and finally at conlesse. Askanary, destroyables for alter in the entertary of the test of test of test of the test of test of

Perman, namely do uson of the nerver by the electration and permeature and newrite changes. Perman a material consisted of sected spectors and conset alone a story material in above 17th Caron stain as especially of stated for the demonstration of connecture tissue. Not every uter shows all of the foor layers.

The sustrmost layer (exadst) pressus astructuraless sone filled chiefs—the cell wodes from leacon tes and formed by shed notrolic tassus trinsformed ther—sugrated cells, guarric epithelium—adirastric contents.

The necrote layer contest of necrote unshed times hen there is necrous of the fibrillary connective times intact red stated connecti times

trabecular are visible

The granulation layer consists of lone granulation times formed by joing filterobless and consists ide newly formed expiliting which guildly tenturaget and toward the uters there is also as about dart indivision of inflamentary cells, mostly lynaphorytes, but also some leconcytes. The layer sayhaves from the consistency of the granulation layer may be necrotic or normal and covered only by a layer of extract. In the latter case the layer of necrois is estured, about, but it may have separated and fallen off during or after the opertion. Only a few cases showed the entire base of the uter covered by the granulation layer the inverma) be partly or completely absent

I the certward direction the granulation layer subcryons traination into the custrated layer which smally connected define fibrillary connective tissue. This is the largest index layer and forms the tree slice timore or industation. If the granulation tissue covers the base of the ulter, the occativeal ratio is permeated by delecte vessels. The creativeal ratio is permeated by delecte vessels. The creativeal most often shows an accumulation of phageoster, usually imphorates and plasma cells. As rule the leucocytes are few in number

There are to main types of ulcers, vis. those ith and those without the typical gra ulation these. Of twenty-three gastric ulcers, thurteen belonged to the first group and ten to the second

The healing of an ulour proceeds as follows Young, multicellular connective tissue first forms around the acutely developed lesson, the deeper part of which are transformed, hen the ulcer beals, int fibrillary connective tiesee. The portion toward the ulcer is changed into granulation layer in older ulcers such are surrounded by older fabrillary con sective tasses granulation layer forms on the inner side of this connective tissue and then grow int the older cavity whereas the newly formed fibrillars connective times of the granulation layer is trans formed into the cicatricial layer. In this w. v. large concentrac filling of the alter results and is seen roentgenologically during the course of internal treatment (Ochnell) According t the microscopic pacture the greatest tendency toward bealing is at the persphery of the skerr W th the filling in of the defect and following it, the newly-formed connects o there of the base of the elect is co ered by th epstheium growing out from the edges of the mucross. This occurs only if the granulation therecovering the base of the ulcer is normal at least at the periphery as epithelium cannot grow over necrotic tissue. The absence of thickening of the gastric wall t the site of the scar after the healing of the ulcer is explained by the gradual disappearance of the excess connective insue

The most important factor in the healing of gastricers is the new formation of connective tissue by the grassitation layer in the base of the ulter. It is admit minimal to the deposit of dense fairflary connective tissue segrounding an ulcer through the many further or that callous gastric should brim any further or that callous gastric should brim any further or that callous gastric should be connected to the connection t

The differentiation of the t o main types of alcer with the microscope is of chancal interest. The presence of granulation tissue above a tendency to healing I cases which the entire older surface

or a large part of it is covered by granulation tisnue the tendency t heal is good, and when the granulation is missing the tendency to heal is poor A wide necrotic layer shows that the ulceration is in the process of rand progressio.

The compariso between the hatologic picture and the history of the case particularly with regard to the duration and periodicity of the disease is of great importance. No conclusions can be drawn a to the duration of the clinical symptoms from the ame of the ulcer crater and the tumor ulcer. Granu lation tessue is seen in the buse of the ulcer whether I three cases its duration has been long or short reported the ulcer tumor committed chiefly of young, nexty-formed connective there and therefore had probably been formed during the last exacerbation The presence of old connective tissue in the lateral portions of the tumor makes it ery probable that the ulcer found at operation originated in the base of an older and mor or less healed ulcer. The historses were of several years duration, but the ulcers developed during relatively short period of time These three cases, and the fact that not rarely abundant gra ulation trisue is found in the ulcer in spite of the expected unfavorable histologic picture furnish pathologico anatomical basis for the sex that in a number of cases the ulcer beals more or less completely during the symptomicss interval and that new ulcer is responsible for the new symptoms

The decoderal ulery beta is similarly to the gastine uler in there of her cases granulation to use as completely absent in the two other cases it was completely absent in the two other cases it was completely absent in the two other cases it was completely absent in the two other cases it was completely absent in the other cases in the same absent in the case of t

None of the perforating ulcers showed granulation tenue of the same type as that found in non perforating ulcers. Usually these were surrounded by marked fencocyte infliration The distant insues also showed large numbers of leucocytes, especially in and around the blood vessels. The connects of tested formation is most abundant in the subserous fermation is timed abundant in the subserous relemantors issues consisting of young fibroblems is seen. A frequent finding is orderns and fraightly of the basses around the ulcer.

The seventy of the scote inflammatory changes has no defaint relationship to the time which shaped between the perforation and this operation. The acute inflammatory changes are not the result of pertomate due; the perforation, but are caused by the scheming process and above that this was moder some including rapper progression, but are caused by the scheming process and above that the was moderness. The perforation diter may show other areas that the perforation due to the acute and chronic changes down deep near the same and chronic changes. The histologic pertures in earth and changes are discounted which the tilear perforates. It differentiates under which the tilear perforates. It differentiates the presence of the frequently leavers acut aftern

mators changes from the parture mutally seen a nonperforating sicers. With perforation there oft n men auntely des loped oleer or telat ely rared

reportession of the edicrating proces in a presented existing unlimited when A tendency of the picer t recur is also seen, and frequently recurrency at the set of a old sea demon to ble

I NEAR ND

Va. Hook, W. The Problems and the Progress of Gystric Ulcer Surgery Und Pr CU Visi

In Paterson opinion the important factor in les beiling feet ga tro-enterostom ha se of alkal se forces into the stomach. If states that pyloric occionion is processary ith gastro jejunostomy and that gastro-enterostoms if a ph autorical operation is effective treatment for ulcers of the God of the stomach as for pylone

plen Broett of the Hamburg Clinic at tes that both remote and immedial operation result should be taken fat account hen the sudention for and the method of operation are considered and that culion after at that the from the p facus, even when t does of penetral should be treated by transverse resection procedure h h produces raore rormal gastric rel tions. The most ht. of trans crise rescution is nearly the same as that of eastro-enterestoms but the lat results re better Bullroth second method should be used only hen transverse resection is impossible and there is con-

inderable difference in the with of the gastric tumns I cases of alcer near the pylones and cases of escaterical pylonic tenous gastro enterostoms mabe employed and occasionally may be ombined

th tyloru closure

Opposition to train one election is based chieff. on to more his 1 on Haberer honever a report ed too gustne election by the first Billroth method bieh there wer no deaths and tedactors I netsonal result ere obtained lie believes that this procedure por closely meets the physiological requirements than other operations. Thus is there has been no recurrence of after a kin cases

Gustro esterostom) scems t cure large of cases. Another believes that a correctly placed and properly functioning gastro enterostom) nerm the grajority of cases the wheet bent and th t heals and the form tion of new alters is prevented Mansky and Craka ad ser agruest g stro cuteros tomy in the absence of pylone tenou

The M y Clinic employs local extruon of th picer or cautorization of its base

Lon Emcliberg states that gastre enterestomy is repectally satisfactory in cases of paloric obstruction Il calls attention, however to the relat a f crocucy of peptic ulcer of the jet num after gratto. enterostomy in cases presenting manifectant objective findings Von Liveliberg pyloric exchange combined with gastro enterestonty promptly corrects the ulcer hemorrhages but is followed more fre

questly by recurrence than simple gastro-enteretomer After trans error resection of the tomach for silver in sixty-four of you Englishing cases there as a recurrence of the ulcer in nine and in four of there a second operation as necessary log Enels berg confirms von Haberer's at tement that Bull

roth a first method ence successful results and ha los murtal to

I reduc the acal forming area of the stomack armon method b been employed such as exten are resection of this portion, tylorectomy recting of in folding of the all and section of the guitte. * I down to the mocosa around the alert bearage ta i derrette the act i of the glands

nd M traus curbasure the gravity of tenso Distances october as company wh

HMDE E STO enterestora The author does not for the Hillard Michalics method or the lannes pyloroplasty for gastne ulcer The Germany stribut convenient importances the changes in the ners and blood supply caused by

resection of the outlet of the townsch The a thor at tenth t gastro enterestour favors he larg by improving the gistric cognition, but ha to direct curat effect Therefor after this opera tion the nationt must be kept under observation

His conclusions are summarized Intelligent patient should be told that accord operations are sometimes agreement to give the best hances for recovery by the least reducal methods G stro interestorary is applicable to rives of

alore near the talores the amendment of obstruction if the patient is well cared for afterward a P mal re-leverantrectors by the first Bill roth method has a place in the treatment of callous takers takers remot from the priforms, makingle tileres and cases complicated by perfor 1900 and the

penetration of adjacent organs 4 treatro exterostenty is suit ble also for other types of nicers. In such uses however failure t subscorent radi secure full rebef to procesular

l energian rach as Billroy's I reservion 5 Conservat methods in 5 be better for both

the patient and the surgeon WALTER C. R. MARTE M.D.

Names G. Chaice of Operation for Gestric Vicer tan torz e bre

Then review brased on serves of felts serves rose es of greatre aleer operated you by the author Cases of cut or chronic perforation are not recladed. The operations performed are of a THEN INCOMPLETE t pes, ia gastro-enterestem

resection resection by the Billroth II method and esection by the Poh method door to sectors Simple gustrojejunostom)

cases, with good results in to p. cent In some cases the pylorus was excluded but the results ere no better than hen this as not done

Therefore it as discontinued I make cases sa which the ulcer as resected good

scalt were obtained in to per cent. In most in

tances a gastro-enterostomy also was performed.
When the alter is not too far from the pylorus the

In nine cases resection was done. As these were the worst types of gastric tiker the results were not so satisfactory. Thirty three per cent of the patients are well and thirty three our cent are better.

Light cases were treated by the Billroth II operation. There were four deaths

The Polya esectio was performed in thirteen

cases, with good results in 9 6 per cent

For ulcers 3 to 4 in from the pylorus the choice
less between resertion and excessor

For elects near the pylorus or 3 in from the pylorus the thor f yors the Pólya method

rus the thor; wors the Polys method

If the operation is done in two stages or a gastro
enterositomy has been done previously the Billroth
If method is the rational procedure

For silcers at or close to the pylorus, especially those which came stenous, a posterior gastro enterostomy is the simplest and safest operation

Because of the possibility of cancerous degeneration of a gistric ulcer resection or excasion of thlesson as ideal unless the operative risk is greatly increased by the general or local condition.

I E BHARKOW M.D.

Standlam, M. The Treatment of Callous Gentric Uler by Transventricular Excusion by th Kraska Method (Behandung des callossen M grupach sen durch transitionsthale Evision nach kraske Seir Has Chy o Cryst Soo

As the today of gastine uter has not yet been determined and as there are so many contradictory tree. reputing it, to support the probability of depend upon the undestrour of the reductional size. The operation should slavyly be as conservative as possible and as rudical as necessary, and parties as read to the contradiction of the probability of the probability of the season and private the indicate must be taken t and injuring the important cases and service of the lesser currenture.

The uther reports series of cases which an other on the posterior will and the learn the posterior will not the learn the curvature of the stoneth was exposed through an executing to the kreake method and removed authority and the stoneth according to the kreake method and removed authority expense of the posterior will Following the exception of the posterior will Following the exception of the other the wound was as termed and the most culture and mucous membrane are posted with deep satures. Gestr unterestony was performed only when it appeared that the user had mechanical effect on the pyform by reason of its situation in recent case entranch has been guarded to the stomach through the posterior wall after division of the gustrootic highmant.

The application of clampa: the tornach does not proper to be essential for expense By proper lawyers proper to be essential for expense By proper lawyers of the stornach before operation, by the expertation of excepting participation are pump domain of excepting participation are pump domain contents and the abdominal coving case prevented. In Storagens opinion the application of intentional clamps may be a custative factor

in the development of peptic jejunal ulcer. In his own cases in which clamps have not been used there has been no instance of peptic jejunal ulcer in the last ten were.

In the fourteen cases of this type which were operated upon (only those with perforated ulcers of the nosterior wall and lesser curvature) there were deaths following operation one in the nine teenth day from embolism, and the ther on the fourth day from pleursy consequent o the anes there. The letter was that of patient who was 67 were old. Among the other twelve cases there were ar complete cures five recurrences, and no case in which an older could not be discovered alth ugh the patient constantly complained of symptoms the cured cases gastr enterostomy was performed two, gastrostomy in one gastroplasty in two and excesson of the ulcer only w thout any other operatio in the In all of the cases of requirence excisithe ulcer alone was done in no of these cases matro enterostomy performed later gave permanent

ventrocular excession of the user according to the Kraske or Wasel method are better when this operation is combined in figure enterostomy. On the basis of his own expension their short recommend trans controllar excession as an emergency operation but not as the nuthout of choose? Successive of the posterior wall. Il believes that the most run portant came of recurrence or the entury madequate someting and mobilization of the posterior

It appears therefore that the results of trans

rehel from nam

all and, above all the co-tinuance of the circulatory disturbance which is necessed by the suture

Peterson, E. W. Acute Intestmal Obstruction in Infancy and Childhood Brief Review of Fifty Fire Cases. Surg. Gyne. & Okst. 9 XXV 416

Peterson review fifty fi cases of intestinal obstruction in fifty three young subjects. Cases fi imperiorat ands congenital attests or tenoms, and strungulated external hernis ha not been included.

Acut untertual batterious as the most service uppeal affection of the belome in early if Most other surgical conduction of the belome in early if Most other surgical conductors tend toward sportaneous ecovery. It is generally accepted that the lumen of the obstructed bowel contains at a na shach, when nepered untravenously into a normal animal, causes the symptoms of intestinal obstruction, and that certain chemicals are directly one of the symptoms of the state of the symptoms of the symptoms of the state of the symptoms of the symptoms of the symptoms of the state of the symptoms of the

In the fifty fiv cases the obstruction developed in miants in forty three, and in children (from t endy months to it years) hat ch. There were twent as many makes as females. Jainusveepion has the responsible factor in forty-six cases in the others the condition as due to early post operative bind or authence obstructions, has post experimentally of the other than the conditions and the conditions have been assumed to be a subsection of the conditions to the conditions of the condit

Introsection I pre-connecth stretch or infant and early in Ferry nuce of tep their whose cases are reviewed ere lafast from a 1 their months of and seem the shall be supported in the stretch souther the stretch souther the earliest of the cardinal control are from the stretch souther the stretch southers are puss, shock, conting mycoshom orth get stock, and abdowant tumor The pathologic process consist in in passion, circuitor, starts with randation and orders, infection, instant with randation and orders, infection, including the stretch starts with a consistence of the short of partners and souther cashing much bright on the first partners and souther cashing much bright on the order to the short of the stretch starts cashing much bright on the stretch starts.

Fun as present as all cases and some degree of shock in most of them. Vorming occurred in ever shock in most of them. Vorming occurred in ever control of the state of the state of the state of control of the state of the state of control of the state o

the transports of cases no default o useful to the transports of cases no default or useful to the same and the transports the responsible from an a Merkel di estrealismo in another a congential timo of the forcion and in several instance appendiction. The chorus nature det always in predictions. The proposity, believing that occusionally appendentar tritation indices the space and brings about the pin age into the proposition of the proposition

There was recurrence in transcription in the iteranscription returned at the same site. In the other adhesions ascenatized a aerund operation and till ter another interrusception required reduction.

There was but one successful reductions though inpursions). When reduction as accomplished the mortality are jet even full clinding the death not place to the property of the contract of the

The most important factor—the treatment of intestinal obstruction is early operation. Financy saves it is more important to perform the operation.

early than w.H. A two tage operation all often proce accessed I bent sangle procedure may result in failure. A local anarethetic of the anarethetic of those i man cases. O 5 Process MD

O'Conor J Acute I territual Obstruction, Best
M J 6 103

The general symptoms in latestimal obstruction are frequently delon a as regards the amount of viteme prosoning and short which has taken place had operation without eventration, ander manipulation or prolonged an estherm offers the last baces of recovery.

The location of the incutoo is extremely larger tant. The author has found that when the area of of ment not indicated by the hasan, to obstruction will usually be found in the ferocent region. I such case the incusion I made along the lower portion of the right semidium hose. As role were in the control of the ferocent in the series are not on much handlass of the wards an incusion obviates to much handlass of the

bone!
When complete surche of boned in guagermous lateral handomen is done the gangermous bored is musical, and the intentional contents are emploid as from bons. A trul bigature is then their dround arb portion of lowed the gragermous portion is cut way the stumps are inverted and the cript purve.

atting solutes are field. When narrow band of gaugeene is resulted from obstractors stay entures are unserted over the gaugeenous band, the bowel is cut through ad exacusted oil continuous Lembert suture is placed about the increased from all.

In doubtful cases as which the band of grangment wide: crucial factors in sink in the grangments area, the intestinal content are executed, the four pagements faths are exceeded, od the interior of the lowel is impact of 11 there is no negations the lowel is remainted by continuous Lembert estate. I arm cohe obstruction the outbook is errorate because of the cohomon distribution of the outbook is errorate because of the returnous distribution.

Through a nebt vertical normon the hand a reproduce in the right that forts and it the lower portion of the vertil tow of the cerum small notions in mide in the bloomist of The cerum is the polled through this opening and through all through some previously introduced. It be rival across on the The cerum is see of to be sufficient to the cerum in several towards and the cerum in the cerum in

I conclusion the author states that if greater care as taken in the permonantion of the stumps and result and the permonantion of the stumps and result and the stumps of cases of iteration of the stumps of the st

South, R. I testical Faci of Infection. Ass. Surg. 9. Irvn 5-5.

The thor believes that chronic arthritis originates from ford safection in the intestmal fract due to the failure of some part of the deocecul coil to empty steel properly Acry examination of over on cases of chronic arthritis has shown a uniform picture of congenital mobile excum. By reduplication of peritoneum from the right cole artery to the parteal peritoneum from the right kilony the colo a rotated and folded so that an hour glass appearance is produced with thim-salled tioneless occum which does not empty itself. This unert sac ultimately becomes culture medium for yearoos bacterns, theirly streptococcil

itself. This mert are ultimately becomes culture mechan for various bacters, chedy streptoneer? Stool examinatio in thirty cases has shown amobie and fagellat protonase. Perhaps these or gamma play a secondary rôle in the infection by foursching culture metals for bacterial growth, and by their passage through the miscous membrane makes, portal of entirence. By found amobia

histolytica in the head of the femur removed in a case of arthritis deformans

In 9.5 the other reported fourteen cases of chrone arthritis operated upo for the removal of miestimal foot of infection. Two of the patients have died, four are untraced, three are no better one has an arrest of the disease but is unable to walk on account of yout fination, and four

restored to normal activity

Of the patients whose cases are reported in this article thirty were operated upon befor 9 7. Ten ho were bednidden and helpless when operated upon are now able to work with their hands and are self supporting. In these cases a partial collect my or ilrosupmodations was done

In thirty oght cases operated upon since June 900 there were eight Mayo colectomies on the right side, is thoughnessessionmen, and it sently eight plants operations on the thoucard not described tentere origination and do with the action of the symptoms of pun, welling, and sont immobility. Following the use of restricted due, tiping partificially and abdominal support, there was progressive improvement. The points became amenable to orthopethe treatment as soo as the pain subsided Operations and manufactures and manufactures of the properties of

of lighting up another attack of cuts minimumstom. The most striking immeriate results follow removal of the right coion together with dishypodermochysis of , now on of alline solution and the quantity of unne mercases from to inter, which occurs about the tenth day. In forty eight to seventy is bours the see lings and pain dampears and the souns become movable. When

th quantity of urine reaches normal th joint \u00e4natoms record

After the release of constricting bands or the division of a Lane kink, recurrence may be pr winted by the interposition of tissue or the use of free omental grafts t cover all the den ded surf ces

The author concludes that throw polyarthritis may be the result of focal infection in the ileoceal coil and that a case of arthritis calls for carried investigation of the gastro missianal tract, especially the mobility and motility of the ileocecal roal if pocket in found the treatment should commit if

in an abdominal operatio t correct the faulty mechanical conditions and to restore the function of the execute, prolonged medical define to restore the normal intestinal form, and orthopedic procedures to restore want function.

WALTER C BURKET, M D

Hidenhagen, M.A. Two Cases of Rare Diseases of the Ractum (Zwe Faelle editerer Erkvankungen des Mastdarm) | Fathal Chr. pages shlesio 024, 1, 65

Case was that of woman 46 years old who had aphable, hard, and very pannful infliration with an alcrovas base in the ampulla of the rectum. The waserman reaction was negative. Carmona of the rectum was suspected and an artificial anus was formed. The operation was followed by regression of the infiltration and its complete disappearance in few weeks after a course of anti-sphilin treatment. This was therefore a case of gumma of the ampulla of the stretchm.

Case was that of an unmarred woman 50 years old who had been castrated and subjected to prophylact radium treatment per exturn became of caranomatous cystoms of the orary. A hard deeply penetrating ulers of the rectum developed which clinically estembled caranoma but on biopy was recognized as an infammatory radium uler.

PETROW (Z)

LIVER, GALL-BLADDER, PANCREAS

Drennen, J. G. Bacteriology of the Gall Bladder
Ass Surg. 9 http://dx.

This tody is based on on unselected gall bladers removed it h Mayo Clinic Cultures were made of the fluid contents, which consisted largely of micros, serum, blood and degenerated epithelial and post cells and in a v resembled pure bits larfected fluids were found in only 0 per cent of the cases. The organism was the bacillus coli in 1 per cent, the staphylococcus arresus in 4 per cent, and backlet of the staphylococcus arresus in 4 per cent, and backlet of the staphylococcus arresus in 4 per cent, and backlet fluids and opendent upon the amount of inflammatory evolution extent as a disease.

From the experiments reported t seems permissible to assume that the growth of bacteria will not take place in pure late. To demonstrate this, a series of tests was made with various dilutions of hild modulated with different types of bacteria. Eighteen

organizate were inoctalisted int or 0.6 of and on per cent glacues boullon, and on trols in per cent glacues to willon, and on trols in per cent glacues formillon were made. These organization, with the exception of the no pagment forming sar cust, grew well in the control, and in 0 per cent cap and the per cent of pail only a per cent of the organization sper cent or guilt only oper cent of the organization sper cent of the pure or guilt there was growth.

Gatewood and Poppens, P. II. Cholecystenter octaons from an Experimental basedpol to Sure Gyme & Ohil 14 No. 441

Numbrum is believed to his liver it first a surprist the operation of holes; tenteration of this liver and the personal of this robot together and the perton of the robot together and it was to the personal of the robot together and it was to the personal of the persona

Though it is now recognized operation in I defit in that isons there is till diff rine of opena. I sake per of the go to intertinal wherehe be used. Most is superiors per fer the desed count of it. Secretally libers accessor it is sheat it is not their liters to order on a count of the diagreed appraising believes to a so count of the diagreed appraising thought in year in present time believesting structure. I gain not in the second of the secon

y gastrix desturbine and in dogs, th fistula t has never been followed by a unpartment of the digestic prior is or the general boath. A nombor of surnicia has all or ted the set num

the true of it at subshity.

The likel hood of a use poling infection of the bile.

pressures of 1 r of far great emportance that y diger to first fluer. The impull of the bacterial baden incolorphishes. The impull of the bacterial baden incolorphishes. The impull of the bacterial baden incolorphishes. The impulse of the bacterial baden is the bacterial baden in the bacterial baden in barriers when the except the omplection of a recording their things the baden in the problem of the bacterial baden of the baden and the barriers of baden of the baden and the barriers of baden in the bacterial baden of the baden and the barriers of baden in the baden and the barriers of baden in the barriers of bad

The athors undust discussed in the control of the control of the first the followed by secondary mileston of the biles of the control of the

The real terre of the gall blockler prime it one toon to be another and the crober of a risk. It operation on the horizon the risk mail is done do not then he will be an immost the gall blockle. In the control of the recess mights of lot the an immost the gall blockle. In the control of the recess the gall blockle. In the control of t

mon duct which was disted in the earlier came troubled to bit prof. cold search be passed the if New Network of when formation as seen much as the distance of the second of the blothered. The firstly as the kern and one the second of the second of the second of blotherin. The firstly as the kern and one should be seen the second of the second impact of the second of the second of the impact of the second of the second of the day. The second of the second of the day the second of the day. The second of the second of the second of the day the second of the second of the second of the of the second o

taph lococcus and anseroles
From the aperment performed on logs in high
the gril bladdi — na tomo-ed j. the stomach
discs mone and colon the following conclusion are

the same

The gall bild ke in analyth becomes infected batter recent need for anisotomous, od their bittle d 3 difference bet een the stoneth and the choich on in the matter of rapidits of infection. The colonials soft the portion of the gratic term of 1 x11 1 be bown by peference. The colonials was to the preference in the new colonials and many his production to the preference of the colonials of the infection batter of the preference of the colonials of the preference of th

be econtinended only for all selected cases such curritisms of the patterns in high the temporary comfort of the patient is paramount and cases of remove ble common duct betraction.

D PRETOK M D

Dreumen, L. Traumattic Panerwittitis. Int Seq. 1 425

too. The pirent refused I allow a operation and tool, the hald some Var ad one halfmonths after the injury the patient was returned to the hospital by globalize registrie necking boat the size of an orange. This is the contraction of the properties of the properties of the histories of the properties of the properties of the speer abdomen. The temperature pube and respiration ere soon?

At one atom through median increme the momentum presented momentum, Bonn-h. It spot of it is now. I large plobular expl. may be not the storm in the lenser in a mention to tree, led. B. It may through the mesocolon, the in [40] reponded. It is attempted off of druved of 3 pt. of first by me mod troors at tanular. It is the deprese prior of the st. madd. elliptical opening about the use of the tip of the hittle finger communicated with the body of the plane the point just to the left of the median plane. The edges of the cust where the troom had nested ore marripalized to the anterior beloemal wall and a large tibe drain was asserted deeply into the cyst carriet. The cyst find contained pricreate ferments. The ownerstal ti-sue showed fat necrosis

Convalencence was uninterrupted Drainage was sever profuse and rapidly grew less. The cyst carty as irregated dark with coo subter attract solutio. Seventeen day after the operation the patient left the bospatal with the wound healed.

Of forth aux patient bose cases were collected by Stuart, thirt nine were operated upon twel o deed, and t enty seven recovered After an exploratory Isparrotomy Ochaner successfully drained abscess of the pancress and Delatour successfully

drained paterestic cyst from behind
The suthor is undecided as to whether posterior
draining should be employed without previous
antenor exploratory laparotom. Posterior drain
age is best in the treatment of paterestic abscess.

Anterior manuspialization has gi en such satisfactory results in the majority of cases that it is th operation of choice. Complete vision of the cystill generally be found impractical or impossible. MATING C. BURKET, M.D.

Souther G.T. Case Reports A Large Pancrentic Cyst. Concesses J. V. o. in six

The other case was that of put aged 6 years from your ago the abdomen began t on large gradeault. There certs go 0 qui of find were removed from the abdomen by taylory of the removed from the abdomen by taylory of the course of the case of the ca

Operation performed through madline unmone below the unablent aboved the abdoment to be folled by large of a shose base as a trached un the opper part Th crist will as abjultly pellow. Tea quarts of gray milky flood were drug of the means of a troor and suction paraties and the means of a troor and suction paraties and time of the crist of the crist of the crist of a cross of the crist of the crist of a cross of the crist of the crist of a cross of the crist of the crist of a cross of the crist of the crist of a cross of the crist of the crist of a cross of the crist of the crist of a cross of the crist of the crist of a cross of the crist of the crist of a cross of the crist of the crist of a cross of the crist of the cris

the hospital on the sixteenth day and co alexeed ell estill the twentieth day when she divided an influence pseumonal from which she is now recovering

The c₂ t presented below the transverse colon Pancrestic cysts may present above the stomach between the atomach and colon, or below the colon Watting C Bragger M D

MISCELLAREOUS

Clute H M Subphrenic Abscess. Baden M & S. J. o. harry 68

Subphrence abscess is usually secondary to per foration of "gatter or duodeant dieter or to appendicita. Less common causes are disease of the gail bladder blant trict, pancieras spiece, or h er emprema sounds of the bidomen dichest sonling of the abidominal ca. b) at operation and septucemia with localization of the infection between the disphragm and the liver.

I addition to the posterior uncovered area, there ar four-fauly distinct perstoneum lined spaces bet een the liver of the disphragm which ar formed by perstoneal reflexions. The coronary and left lateral ligaments of side the disphragm to surfice of their erroughly into an anterior and postrice half and the falciform ligament divides a sub-row and open-openioneels surfaces mit right and the falciform ligament divides and the perstone of the surface of the A perforated matter the reds of dram into the

right anterior space. A posterior gastric citer ma perforat into the left posterior space. A high prendecal abscess may drain into the right poster for space by say of the lateral cole grower. I fer toon readil follow the limphatica behind the creating and the according color into the rubph case area. A pylephebitis mat present as one of a feature, proposed to the least of the color of the phragm. This becase in a contain put alone or para and gas. The gas comes from wacus or is produced by an erobe-bacter.

The symptoms may begin insidered by a scritical When the once in gradual the patient may be conaliescing seeming! cell from surpost leason in the
bedomen hen a steady, raing dail fere a sh
child sweats, and loss of appetit and a gibdirectory. There is seemed followed in the opposition
report associated with considerable gataric distress,
the property of the considerable gataric distress,
and pass one of extending to the histograph cough,
and pass one of extending to the histograph cough,
and pass one of extending to the histograph cough
ray). The patient looks.

An acut onset may occur th shock and collapse from gastric or disoderal perforation. A diffuse peritonitis or localized upphrenic abscess may result

Ph seed examination show marked limitation of motion on the affected side of the chest in inble widening or bulging of the right isks or thorax, and occusionally ordems over the right side so the back of the chest. Percussion reveals flatness over the lower tensor and posterior thorax. The presence of gas gives it mpany with obliteration of the lower lives didliness. The line of percussion didliness may descend th respiration Duliness may extend anteriorly to the second rib and posteriorly to the middle of the scapula. Amendtation discloses absence of the breath sounds and vocal fremitus over the area of dufiness. Above this level for a short space vocal and tactule fremitty ma be increased because of compression of the lung. Occasionally there is a pleuritic friction rub. When the abscess contains gas and pas succusson solush may be chested by shaking the patient. Fluid in the pleural cavity complicates the diagnosis. When this is present ta emploratory needle may obtain first a stran olored find and then put or put nd gas. The b er edge may be well belo the contai margin. Marked leucocytoms a generally present I certain chronic

cases there is a leucopienia I ray and fluoroscopic examinations give the most pos tive findings in the majority of cases. It may be difficult t determine by the symptoms and physical ugus alone whether the condition is a subohrenic

breeza, pyothorax or proportunothorax \ high fixed disphragm ith persistent costophrenic angle s very typical of subphrenic absces. The level of the dasphragm may be only alightly raised or m reach to the third rib. The line of the durchram is

smooth regular curve. In cases of liver temors, abscesses, and adhesions from old pleurisy this CHES more irregular and more sharply localued

91

Subphrene aboves causes early loss, estings. and general debaht. In cases not operated, post the mortality ranges from \$ to so per cent, halo in those treat d surposily it is g per cent.

The treatment is incision and dramage. Abscesses on the left side must always be approached from the front. A left anterior space abscess is dealed through the anterior abdominal all A left note. rior abscess is drained by second incision from behind, which may or may not be below the rib margins. Collections on the right side are drafted from below the rib margins, or by incision between the lower ribs, or by resection of one or more ribs To dram adequately one must go through the lower part of the picural cavity or retract the picura \

superimposed empyema may be fatal The author recommends a t stage operation under local or general angesthesis. At the first opera tion portion of the tenth rib is reserted in the mid avillary line. If the pleural ca ity contains find this will then except. The borders of the noned paractal pleura are sutured th continuous extent sutures to the disphragm which presents in the ound. The wound is dressed the vaseline gavar After forty-eight hours, when the pleural cavity has become walled off by adhenous, an increson into the displirage parallel to the parietal incinon in the pleura is made under local anysthesia. The edges are retracted and the pur is located with the finger A large rubber-t be drain in then inverted and held in place by a suture through the skin or fascia T be-dramage is continued for week or more and

followed by dramage by rubber dam. Too hasty removal of the dram may result in the formation of a secondary local incess The author has no difficulty from bleeding inter costal essels or rib necrosis, nd reports is orable

results from the procedure described. The two-street eneration is safer than the one tage operation because it reduces the chance of empress to the NAUTE C. B PERT VID MINISTER SERVI

SURGERY OF THE EXTREMITIES

CONDITIONS OF THE BOILES, JOINTE, MURCLES, TENDONS, ETC.

Winkelbauer A. Chronic Non-Supporative Onteoral effice in the Adult with Primary Total Necrotie f the Disphysis (Ueber chrossche nicht eitrigs Ottomyekts berm Erwachsenen mit primarrer Totulockress der Biaphysis). And f His Chr 9 CET 16

Two cases are reported which speak in f or of Ritter's theory that in outcomvelitis the necrosis is primary throughout to entire extent and that fur ther breaking dow of the bone does not result from the upperation

I the first case a curettage athout an increase of fover was followed by swelling of the entire arm which persented for two months and then retrogressed slowly following immobilization and the application of heat. The roent genograms showed outcom) htis necross of the disphysis of the humerus I the second case, in which the course of the condition was similar a cloudy scroom, slightly blood colored fluid

containing staphy lococts as obtained on puncture

In three months the album nows evadate changed pato pos

In neither case did the outcomy him show an scate stage. The necroses of the entire displays, hich as rocatgeoologically demonstrable fi and night cells, respectively after the beginning of the disease speaks in f vor of an inhohe disturbance of nutrition of the affected bone occurring in the a triest artery. The severe reaction of the times in both cases soon led t laquefaction of the necrous and the development of personnel mantle of bone. In the second case a small sequestrum as removed by operation to hasten bealing. The uthor states that as role conservative treatment is advisable in these Bet VER (Z) hrons, albuminous forms

Barrie, G. Harmorrhegic Ostromyelitie. J. Bench. Jan Sur 9 ótt

The author emphasizes the fact that hemorrhage: osteomy chitis is essentially benign condition with the characteristics of multi-inflammatory affection U til comparatively recentl t as egyrded as mal munt

There is a similarity between the scavenger grant cells of simple harporrhard outcom cirtis and the eant cells of mant-cell sarcoma. In the former condition there is als us an associated low stade Information

About 75 per cent of the cases are due to bone traums. Other causes are hematoernous infection. bone main trition and endocrine disturbances. The lower extremites are most frequently involved

Henelly the symptoms are mild. There is nam on resource associated with himmony if the lower extremity is involved, and with himitation of motion if th condition is near a foint. The size of the suclime same according to the area involved

Grossly a mass of highly vascular granulation tis-sue fills the cavity of the bone. Microscorac examination reveals the typical grapulatio tissue Some sections show numerous scavenger gus t cells but their distribution is integrals?

ray examination is essential. Usually 1 above clean-ent round snot in the cortex Expension without breaking of the periosteum is observed. In voune persons the condition does not penetrate the epobvers) carblers

In the differential dustrous acute inflammatory infections of bone, highly mahemant processes, chronic bone absersa, true bone cyst, mysoma, and slowly growing fibrosarcoms must be considered

The treatment consists in removing all exuberant stanulations filing the destroyed bone area, and through curettage of the cavity wall. Repair in large on thes is fa ored by filling the on ty with bone graft, thins, or Moster Moorhof plug

C SEG MINNEY M.D. Masci, B. Primary Multiple Sercomets of the

Bornes (Sarrores multiple primitrys della ossa) Pelidia Rome o tris ses chit 471 The author's case of multiple and remary hone

tumor as that of ms aged 50 years who had suffered from youth from chronic bronchial catarrh nd pulmonary emphysema. When examined by Masca he showed frontal tumor the size of a hen's cer which had increased slowly and continuously

thout pain during period of five months growth of the neoplasm as associated with sharp thoracic pains and cough Numerous other tumors were found in the cramal bones, the clayide the mandible, and the ribe I the seventh rib on the right aide tumor caused fracture. As far as could be discovered these growths were contemporaneous in their evolution with the frontal tumor. A diag nous of multiple myelomata was made. Tuberculous, syphilis, and chromic inflammatory processes were ruled out by the findings and history. The symptoms were ementially and continuously omeous and left no doubt regarding the primary localization of the disease in the bones

The frontal tumor was removed. The breach in the bone savolved both the external and the ternal table The tumor was dherent t th dura Histologically it seemed to be round cell sarcoma

other decustes multiple myelomata and sarroms of the bones and their relationship at leasth As his patient had had several jurious falls during periods of intovication trauma may ha e been an

TL A REPULA

Rhodes, R. L. Periostesi Sercoms in Association with Outnomyelities Report of Three Cases. Sure Grace & Obal o Year 440

etiological factor in the co. ditto

In two of the cases reported there was an ulcera tion of the skin through which the pyogenic infec tion of the hone mucht have entered, and in the ther case the malismancy may have developed after the operation for the esteemy clitis. The fact that two of the patients are living and in excellent health over a year after the montation supports the generally accepted were that the round cell tumor is not apt F I BERERESER M D to form metastages

Fineters H A Muscle Angloms of the Deep Musculature of the Neck, the Rhomboldess Minor Muscle (Muskelangom der tiefen Nackes muskalatur Muscalus rhombusdeus minor) II es Him Beltande o 2 THY 160

The author reports case of tumor as large as the first which developed on the right take of the neck of a gui o years old This growth was an intramuscular ca ernous ananoma with relatively hard fibrous septa which had its origin in the proximal portio of the rhomborders minor muscle. It stended from the second cervical ertebra t the first thorson certebra and was connected by large enous bands with the vessels of the neck and the deep essels of the muscles along the ertebral column. It was distractly compressible. Operation esulted in cure The differential diagnosis from knoma, cold abacess, and meningocele is discussed briefly. The diagnosis was established by puncture (dark blood) early operation is advisable as the tumor may grow and exert increasing pressure on the neighboring OTTO DO Horry 17 (Z)

Rogers, M. H. The Pathology of Tuberculosis of the Joints. A Study from the Clinical Stand Point, J Bene & Jetal Surg 922 \$ 17 670

It is taught today that in a large percentage of cases of joint tuberculous the original focus is in the bone, near or at the epophyscal line, and that the in volvement of the sor t as practically al ve second ALTY

As described in the literature, the pathology constate of an investon of the bone, generally t or near the eniphysesi line extension toward the joint sur face, dostruction or absorption of the joint cartilage. and invessor of the capsule

In an article on this subject published in or Allison greed with Nichols who stated in 808 that the bone invasion with typical pathologic lenon first untusted

From cases treated t the Massachusetts General Rospital the author concludes that contrary to

the belief of N bols and others symoral in sam occurs first indicatemion into the bone is secondary. On the bases of his experience, the arite arthrot omized knees believed to be imberculous Brack it class field his cases—being first a novial in type—m? later bone

Tubercules of the hip beginning in adult if in rare condition in the author clir. Regers h. not cen. period se of t. herculesis in which if end.

result in not destruction of bone

Value cited. I likeful p that of 13 pr. h. bod a incremittent long. There on entretion of motions but been the him to opened displit frephy of the thing togeted to be the to 15 point toghts of the thing togeted to be the to 15 point to bereinbene. The operation was done after the passes of the torsilon had been run to the cell find and solvent necessity to the togeth to the togeth to the togeth togeth togeth together toget

examination

In a \ r to \ ye' kere the no less of look in on service. I cereff by less the system of look in or service a still insight to yet and look in or service a still insight to the still event to look in order to the still event of look and in no second the still event of look and in no second to still event of look and look and the second look and the look and loo

the ther a lumbar absect.

I the \text{\text{Tay} thet of e 1 t berealist of the split is the fact point absect of the marrowing I the latercent bridge Later 1st of bone. Interest the later is of bone.

appears. The thor best e persons as derived from keep joint cases. When opened it knees showed first, eitherned takk need uspected appared. It the next tage there work in Justice Justice he will have provided the crossele passes bitch begins it over the interest of the country in the passes of the transfer of the country in the bitch tage there were a surface of the country in the bitch tage there were the passes of the bitch tage there.

tension of the pannes ith loss of the underly general for the last stage loss of home substance for R Ministria M D

Bruleer W. Dissociation Processes in the Center of Guiffentien of the Tuberssity of the Tibla (Dissociationsprocesses des Knowleenkerns an le I beneate iblast. Aut. Chr. Inch. 9.

The nation report is bronze cases hash ere empletely cured chinkful and open t ely in he than three weeks. The subjects were boys it is of lyars old respectively. I the first case flowball is kery caused no symptom, but about as chart of lowers in more bloom. The chart of the control of the lower is mouth the control of the control of the lower is mouth the control of the control of the lower is mouth the control of the contr

haved defect ith a ragnet base on the auteror utfore of the beak shaped proces and in front if it a redated oxal poet of box. N profiler to processes are found in the vicin. The right laborast a mill the right physic of the raken-outsiderso

its ere normal. Index normal as split tength so the small piece of hor suspaired the linest partition of the epighoseal process. Instelled the tentions legislate itsized in legislate late.

aund hard and abort pla ter splint appied Halking painless after a enty-days

If this open examination of the removed part of the laters tyre alled assumal perhap somewhat aboved enchandral on faction. The perplacial throws trialing adversent gracual transmission in the trousons of an of the faction of the faction of the perhapsis of the faction of the faction of the credeposit of the enchange of the faction of the but as small will not true as other signs of

i it mouse in

In the second on the dive se or street on the left sale A fall on the knee t the ago of tri are as 1th at treal one car later hen th paternt knocked his foot guitt door he penesced severe but t sunt part in the knee Subseque U en lling opened back personed ever after the ecorption of the effection of 1 and The incre sed for one palmachall car the ream ned constant for one and one half are not the last # month had reprient on sever to themes ertax mo ement. The par radiated t the hole he circually be the national enterlied on the fort Hh the kace ben. The rocatecouram of the f fertellarer to post 11 th 1 of th recentlarer howed reduted center if ossile two in th middle third of the craph seal proces buch corre amonded at the unface with socialier trough shaped defect. The operation an lafter treatment, ere the same in the host case. Rest. bed was undered for one erk I the second crk I w discou timed sail short tenor place uplated applied.

By the third cell unpide subject and tobe tional or had been bisined II token examen tion in hill almost couplet normal cachondral on fix tion. The extripated hemospherical bank welling topered tell to ent in extent marrow ca t patetrated by fee boar trabecule and enclosed by bell of bues showing extra tions Ther ere no ages of flammation

The whor regards tre may a the extu on factor withing detail from whome or through the add outsile try instruction and causing whom of the plant of outsile try instruction the operation and hyperplastic changes (undo an uncroosed examination by Jahotahala, M. Yinda, Minta, and otherwise the produced produced and the produced and the plant of the outsile of the plant of the plant

or overseason is neutron up to the complete of predimposing or secondary repulsars. It was a grounded in the last water and in the make certail actions and if blough on he appoint the theory and obtained archent result in more radical tre interal. I we see (but w to Z)

Hersen P Acromegaly from the Surgical Stand point (Ueler Akromegale vom chrangsschen Standpankt) Resy Chr. Arch 9 83

The stated is based on the following case. The patient was persent all \$9 sens old who gave hatery of alcoholism. It had married to 8 rears of or His wife had borted once and had borse for children. All of the children died early. The patient acquered is plant during his tenti vectord year but was rured. For filtern years, be suffered the serve headacher. For ten years he noticed increase in the use of his face, hands, and feet but there had been so further increase in this last few years. Five years before he was seen by Hersen he had been operated syon, large frontotemport did apply cut on the right node. According to the surgeon report the selface could not be reached.

The patient was of massive build and tall. The lips and it gue and the skeleton and soft parts of the face, the hand, and the face we marked hypertrophic. The skin was verywhere bankess of y and include, and it perplials ere calarged broadened, and acterosed. The subcutaneous it is the mannary regions. The patient complained of continuous headanche and pathly. Other conditions

common newsacrae and aparts). Other conditions
or six o engith without huntation of the visual
field, slight myona, and tardy reaction of the pupils
Sensory and motor disturbances ere absent but
there as no knee refer or Arbilles tendo reflex.
The thyroid gland was not palpable. The periss and
grottum were flacted by the testicle as trophic.

The patient had been impotent for ten—ara—The reentgenogram showed a —normous in largo—ment of the mandibles the supra orbital arches and the frontal smuses—and marked widening and deepening of the selfa turuca—The posterior clinical processes—or indicting—

The uthor considers it possible that the adynamic myxordems like symptoms in this case insofar as they were not due to accordary stage of patulity hypotometros, were the estit of the acrophy of

the thyroid fland and resuche Hence is opposed t the tracranial operati-Hence is opposed to the tracranial operatiprocedures as they are not based upon embryologcial development and they open the thin and occasionally broken wait of the phenodial innor an occasionally broken wait of the phenodial innor and the thorough of expensity than oddible lemon of the thorough of the phenodial innormal than any destroying lespons. The various endonasatmethods at county preliable.

I the accuracy neviators that constitute operated according to the Government of the first sign to the Government of the first sign to the forest of the forest the fore the forest their form hove pith the septum from the floor of the frontal susues does must used beckwarf and reserved the septum, the upper and maddle and reserved the septum, the upper and maddle as the floorest and the septum, the upper and maddle as the phenochal annue that the phenochal annue that the phenochal annue that the phenochal annue in cut through furth that have of bone near the anterior all of the selfa.

turous partially opened th 1 tt. mit the amouth dura protraiding in for 1 of t (whertupon no spinal fluid escaped) and removed with a spoo about g m of colloyd substance. The upper bootler of this hypophysis, which showed neoplastic change was not reached and no ttempt was made to reach t loddorm gause strips were laid in the seals, as advised by Konder the nasle cavity was produced and the nose and the dapp and the first product of the seal of t

sulted Rhaoscopic examination, which was done later boxed only few pide granulations it the oper roof of the anapophary as at the base of the skull \ \(\) probe c terid the cit yo of the sella turcies freely a though any any bleed gor excapt of acrois dust five beads has disappeared. Even at the index of the first cit diministration in sure we observed in the face of 5 gers at data we often the though of the beads has do the first country of the force of the time became normal the thyroidig of became pulpable disappeared by the apath decreased markedly was and the populiary

coction how muned unchanged xamination sho ed that **Мистонсори** fulls large glandular flap h d been removed n ddition t considerable mon t of secretion. The man make consisted of co glomeratio of round basophile cells with round ucles and almost no terst tual high as atterrupted al by broad subst nee alled blood essels d large granulated rou d eos nophile ell. I addition the specimen show d hollow spaces filled with colloid which w lined by in ide lay of cub call epith hum

(Arts Sues (2)

FRACTURES AND DISLOGATIONS

Mitchell, A P. Ununited Fractures Due t. War Injuries With Fed Results of Operath. Treat ment in 169 Cases. Brid J. J. 21, 9, 29.

I saxly-one of the cases eviewed the athor performed the primary operation tently four cases had been operated upon previously by other surgeons

The gap between the fractured ends measured to em and was filled the fibrous tissue. The rounding soft tissues showed fibrous and liked easily. The fragmented indower often tapered brittle and adjection.

Local causes for no union were primary loss of batance fifty five cases displacement, t elve cases scierces and latent separa fi cases scierces as the plating and irring, for cases scierces and gap, two cases and scierces alone twelve

Pre-operativa treatment was employed in attempt to overcome deformities exulting from sepais nerv injury or limitation of motion in the joints

As it as moss ble to determine ben guishot wounds ere free from latent sepus no operation as ttempted until the ound had been besled for

twin month. Most of the would wer health for fifteen month before operation was performed Latent infection we accountered in successe. At stage operation was done when prolonged acts of the original wound had resulted in terms exempse.

of the times tibe up of the non-uses.

At the preliminary oper too by the thor all selections tissue we omplet by eacherd. The would we sthen closed in the graft g done four term dark later.

Infection and successful graft wer not becomnatible but the chief use I failur serior

Succes is improved and the following principles are address to (1 this issue no district) length (1) the optice execution of exact tissue (1) and trense erraised context between the granteed context between the granteed to be successful to the perpetution of brailth mostle bed, (1) the only of orestate one of the successful to the suc

Most satisfactory was those of the autogood thicking and including permeterant compact for a more allular time. I feet one graft for each generative after the absorption that the contrast were the Three also proved statisfactors. Permetering facilitation second in the graft and protect, the graft of la cut sepan is habited on.

The graft must be long enough the selection contact cross the gap. The graft employed were ground from the three three the length of the

Fig. 7. describe the method employed the thore uses the all appet tion a nexample \(\) \(\) in the motion of safforest length we made along the postero-laternal border but cent it for sand the reterior cardy learner \(\) all sole to travel we retried the fractioned and every produced all selections of the sand the retrieved and regard look between the fragment was removed. The maybe, with the permetters, we reduced to the same that the same th

Interrupted sources of atong tassed stard were passed through the refected personate man demode on either side of the prepared bed and phable probe was lidd in the defect and bent it the exact length of the grait prepared. A grait equal (the length of the bost probe as resoned from the outer side of the anterior border of the tibes by nexa of the anterior border of the tibes by nexa of the side of the anterior border of the tibes by nexa of the side of the

Platter of P m med for immobilisation for period of six rels. At the end of this time the attaches were removed and a second rast applied after an X ray examination. At the end of three months the platter as despensed. (th.

Not used to the raise is more bright at this row was on the balls. Account won the period to the blow for operation to the lower half of the low. The transment is read or operation to due be a long 1. In which is particular the radial. Itenors of the raise from the enteror common and extreme The secure proper also ment (it necessary 1 lever 1b lower tragment away from the 40 and rotat it 0 to the separation.

The graft I pid of preferably I the posterior affects for factors from the level of the posterior did feters the promotif fragment I completed supported and the deal of regeneral I promised. A most fixed first mediatory per proved mint stability one mode of the protect may be most of the protect may be most of the protect may be most fragment and the other fits if did retter in de in the about that fragment.

Ulsa non- son he of frequent necessaries. I some control I some control I some control I some control in the son part of the shall he it the effection the seaf the hand.

Non-toom of the homerus occurred in ten of the a flow cases. No miles at more frequent in this hort is an analyster. There were disfinity of a too. The corporate homerous to the participant of the too. The proposition of the homerous is the trides, when and the and home grating is self-title allers, and the and home grating is self-title allers, and the and home grating is self-title allers, and the analyses the most succeed.

method I the Imp out operation. In fractures of the Law with mater film I there as with mater film I there as will fulfill deplacement. In fractures of the tibble with of fractures of the film I the exposit point the displacement. For market and is frequently assigned to the film of the film o

bone resulting in internal or external displacement of the foot.

You trained of the femour 1 are. The set of roolog in the author, three cases, as about the

middle that of the shalt

Seven graft fractures occurred 1 the series of
eighty three cases. All but one were much tablet

graft Josephineses, M.D.

Merritt, W.J. The Davis Method of Reduction of Confernital Dislocation of the Hip John J. Rose Lives See 1998.

Days method of reduct g congenital dislocation consists of four phases

The the articles the child is prose if his help is magnificated happing doe does I be held to the table. In self-tack faces the perha by making pressures on it downward to lower the self-tack A sectored assurtant, under the direction of the operator graph he look and knee, there the help on the absonces, rotating it and makes pressure toward the ferroral facts in the sace of the ferroral arms his k-expant he table, then the sace of the ferroral arms his k-expant he table, then the ferroral facts in the sace of the ferroral arms his k-expant he table, then the ferroral arms the k-expant he table, then the ferroral facts of the ferroral arms the k-expant and toward the usual table probably. I ternal rotation chares the Jugment of the extension to rotation.

During the second phase the operator grasps the laces and trochanter extracts the tingle does and toward the trumerure plane of the petrus, abdusts the than an analysis existent on the trochants that the same transform, at the same time grady toward the thank in and out if the head then does not be burn into the accetabulum, the legs is paced in the postum of the first phase and the part of the postum of the first phase and the state of the second than the s

When the bend is at the thyroid foramen, external rotation and extension are made t carry the head appeard through the cotyloid notch. This last tep

completes the third phase

I the fourth phase a cast as applied. This includes the entire extremity and the chiph of the opposite leg. When the dislocation is unlateral testended also to be lower therex of the opposite side. The same form of dressing but without the lateral space actenison is med for believal in at a case of first on the final position in the every case is one of ferrors, niterial rotation, and abstitution of the

The author states that in existant cases D visused extreme fexion, abduction and internal rotation until the resistant structure yielded, and then

forced the head into the acetabulum

Figure, abdretson, and rotation were maintained until the V-ray and other dimed evidence indicated that the bend, neck, and noctabulum would estain each term. The first cast was removed at the end of three or four necks. Casts or aphints or an addention breton maintained the desired position until the roof of the acreabulum was capable of retaining the best.

Each case is handled according to the condition found. There is no fixed time for bringing the leg to the midline and establishing function.

ig function logs R. Minesent, M.D.

SURGERY OF THE BONES, JOINTS, MUSCLES, TENDORS, ETC. Brandt, G. The Treatment of Acute Outcomvell-

Brandt, G. The Treatment of Acute Osteomyelftic (Zar Behandlung der aksten Osteomyehts) Desteht med Wekaschr 922, xivm, 97

At the Halle clinic outcomychin has been treated in wisnous ways the different directors (Braman Schmeden, Vocker) during recent years. For the purpose of subjecting to critical analysis the questions better the abscess should be opened with the subject of the

He concluded that in the majorny of cases of acute contemporaries mosso of the subpersolved abscess is sufficient, chaecheg of the medullary cavity being necessary in only small number. The latter my be done also t excending operation. The

descentiation and progression of the phlegmon of the soft parts and part complications must be taken into consideration first of all. The bone should be chiefed eyes when the cortex is compact (old paterior than the contract of the progression of the hoperostate) process, the more readily may it be also made to the contract of the process in the contract of the process the contract of the bone to chiefe the process the process is to colared chiefly at the periphery of the bone

Gaugole Ostactomy or Ostaccinais? Also a Discusation of the Springer Operation (Ostacomse oder Ostacklasse? Zudjach Betrug zur Springerschen Operation) Arch f serließ U fall-Chir 9

After having twice experienced infection of an increationy wound, the author prefers netocolars, procedure which is all ye autifactory when the twice the proper treatment in the found stage of the richity has been earned out. Under such conditions the new methods of Springer and Loeffler are understanding the early treatment of the rachity is even more important than the early treatment of the deformation, the author admits to his hospital for expelse infants of the flower of the complex infants of the complex infan

Goljanitzki, I. The Surgical Treatment of Trea matter Pseudarthroaca. Two New Methods of Operation (Zar charetpschen Behandung stan matsicher Pseudostulrosen. Zwei neue Operations methodes). Vessy Clay Arts. 9, 11, 5

A accessful result is dependent not only on the structure of the transplant but also on the method of transplantation. In four cases the author obtained no result with an autoplastic bone peg

In the recent war it was noted that, in space of associated injury of the soft parts, wrutent infection the expolation of numerous sequestre, and insufficient immobilization, hoovy man of granishof tractures occurred more frequently following extensive spin terring than shan the bone was not greatly shattered to this indicates that the exportation power of the indicates that indicates the exposition of a new factor in the treatment of pseudarthouses in cases with extension exactinces, considerable degeneration of the radio of the fragments, and doubtful acquisit

As much of the destructal basse as possible as removed, the fragments are somewhat freshened, and then, with these of bone shasers, in adequate longitudinal splitting of the bone ends up to the opening of the marrow cavities is done. When the destrates a slight this impaction of the fractived ends of the bones in opposing size is successful, but when the property of the successful the superior to large it is filled with free bone fragment guero is large it is filled with the bone fragment of the superior to the superior

If the katenal it we dotarleng the outrained of report too anow be removed a difference from a district of the first that all need too lat the method lat her who are too lat the method lat her who are too fit diphysical in the method lat for who are too fit diphysical in the method late of the diphysical internation to the method lang of the might to dispatch with all of them right to be said to the method language.

uther perposes a collater I restor two [1] in depriss in its entire. Irons at he embed large of the implia 1 of health II see Iron epigh is 1 epigh [1]. The mental properties of the perpose of the person of

we complet? re totel.

The new not alwalle! ture h procedure not the total has go better but the last bette operation performed in he lith it we the region. I the presidentials left in act and bon in which

Manuco, A Operative Neumres i Mobiliae Ankylosea Linterven opera sell rekilosi Line di oblitante it al di 143

Sue goon more them Nigi Jesas and Pas den the thie nings is not a selective the utface of a bool per far and the estoring form. The paders will disting the procedure these that at a temporal to the modeling of the strategies. I that we fall have been supported by the paders and the paders a

After sept i ton of the k local earlier of jump of hone all remaining returns and i pertiarticular frament self encountries of the bose end re then I shonned with the power. If I ap you bet fait the faint took her to fulfill the detailed equiphyse in 6 cell the street of the street

tracted and the soft part in loved. Postoperative territors to it or three month I secretary. This must of immobilization followed by passive molecular tradition.

Fracek I, J. The Origin ad Treatmen of Congenital Muscula Farticollis J. 1 stellang ad Behandong fee angeb resen rusukatern hebethalses). Ach J. H. Che. 18

The old Stromy er thesey that miscular corticollar as well intermodeaboristical tomor a come quotient of training control of the second of the control of th

terine bl. If this ere correct the torical of and to be jet possage or arabe than it cross-species of the rupture. I can be recently received and it is early impared in postarone delivery. Such I just in deep less to keep than a tension than to traveling the electrone tool gramer has it every the keep to be in the more than a referable to like them at (Vickley). When all is like the first of of the last the schema, if the harmonians are well refused by the previous form of the control of the cont

In f we dide permany i transcence reocca sonal f in ial or beredit in ages including affection and f in those thicker congental deliveration

Very sprain, 1) the frequent of his shade torthood prepara the treat been part and he if or the 10 and part for the treat been part above and the if or the 10 and the first preparation of the interest of another treat or and the treat or and the treat constant to the interest of the in

by the control of the second of the terms be about the second of the sec

A red at be what method, he mask exle of ratel on the labor in the modifie of at a lower insertion, thout sattributed the coments result as is the ret into of the did complex of the text demanded by M labor in not been trufer the text demanded by M labor in not been trufer the text method both upon square of the 1-re of the color had the stretch field section much lowers the complete dended by the text demanded by M labor in the stretch field section much lowers to ecospheric dended by the text produce the complete dended by the text produce the complete the color to the color of the color of the color of the color to the color of the local astrobuses in our commended in pix

cuts general ses of the tissues. The Autoresses of the Strangers-Indianated it more me in the per of the on Ranger less strangers and the cuts at least a facilitation of the cuts and the

the Desch top blunt instrument and dividual. The slight hemorrhage is not stopped, on the contrary the arc of finant is allowed t become filled to blood so that it in the their kept open, and its

pressorts dreaded anterior layer is antured longstudinally over the hamorthage. The muscle is not resected its ends draw part of themselves and the extravasated blood forms the new co nection

Following the operation a plaster-of Paris dressing is applied in the corrected position and left on for three ecks By the end of three ecks the extra assited blood is transformed into a soft substitution tissue. The fier treatment consists merely in methodical lateral flemon of the head and drawing had of the shoulders. This should be continued for three months

Subsequent exams atton of patte to operated on in the manner described has show excellent per PARTITION (Z) manent result

Hamilton, G. An Operation for Lengthening Bons Term State J V 9 1, rom 191

Hamulton has lengthened the femur in the cases I one, the increase as in and in the other. little more These patients ha presed from his observatio The technique consisted in dividing the femur and

shiding one fragment on the other until the desired length as obtained

It is generally believed that the same result mabe obtained gradually as by Putti method but in the other's opinion the shortening of the soft structures ould make this imposs ble

F I Brokkense, M D

Aropseid, S. M. Experiments in Bone Transplantation (Experimentelle Beitracpe sur Frage der knochentramplantation) \c/off Vasadeckr Grancat o

U unuted fractur of the neck of the femour ha al avabeen difficult condition for the surgeon I oor. Lenz employed acres, in case of this kind Later Koch obtained good results a than ory peg I 803, Lans transplanted the fibula case in which the tibus had bee destroyed by osteomyelitis I o Albee published large number of expen ences on the transplantation of bone. In Holland,

\noncentre has brought the method into f yor It is still neertain bether bone transpla tation perfect cure in fracture of the neck of the The utbor has twited in particular the questions hether t is necessary or advisable to lea the periorieum on the transplant, and bether kving bone pomesses advantages ver dead bone H experimented on dogs which he fractured the femur just beneath to head. Eleven such experments with transplantation of the fibula without periosteum are reported in detail

The increacepac examinations show that signs of actross appear very early in the transplanted fibels At the and of the seks the greater part of th transplanted bone a dead. There is till some doubt egarding certar zones ly ng close to the outer margin. That the groups of cells around the ha er man canals remain alive has not been proved. It is practically certai th t at the ead of bout one

month the last cell groups are dead, but it is possible of course, that here and there cell group has escaped pecrosas The greater part of the persosteum of the fibula remains aire. After a bort time the richl collular layer of the percentrum begins to proliferate At first the outermost fibrous tuene layer is pressed noward, whereupon the cells in this situation vanish At the same time this timbue sets up resorption in the transplant Large lacung are formed, and f ee gus t cells make their ppearance. The same thisne together with blood essels and connective theree. grows int the ha erm a canals the l tter water out int large spaces in which resorbtion t kee olice

her bone formation is now seen. N t only the ancrounds g hope but also the transplanted person teum begins t form new bone. At first there is distinct difference between the new bone formed from the personteum d that formed from the sur rounds g bone. The same destruction and building up occur in the bone marron of the transplant Thus the nur transplanted nece of bone a slowly destroyed and eplaced by new bone. It is difficult t determine hos long that process goes on. The specimens how that t is not completed t the end

of sux mo the

The bid of the tra splant reacts in similar man ner. The formation of tr becale become rather early in the neighboring compact bone and is more marked on the aide facing the transplant than on the upper aide Later the transplant becomes healed a net

ock of sponsore which some to need formed lavers. The me is true of the preparations tranplanted thout personteum as Il as of those with periosteum Of course the former there as be periostes! Prolif ation and the entire process of destruction and chulding takes place from the neighboring bone \ comparison of the sperimens show that in each case the process in rapid. It is to be emembered that in the transplant a thout perios team the out oblast bearing these is not removed but equires some time for egeneration

As regards the head of the femur the voemme t show that for the most part it remains all is not known definitely how much time is required for regeneration hen the transplant is a thout puriou teum as thus depends the extent of the necrossand on i prison. The cartilage of the head of the femur remama alı It seems t be established th t in ma the layer of osteoblasts remains trached to the personteum, just as in bone regeneration following subperiorical resection of rib Conditions seem t be the same benth transplant is taken from the tibus I concluse the author tates that fracture of the neck of the femur is every transplant serves as

well as bone transplant Kocz (Z) Michon, L. A Contribution t the Study of Bone Transplantation (Contribution à l'étude de la

transplantation oriente) J de chir 0 71, 260 The author has made an experimental indicionical study of the polication of bone transplantation t the repair of the metacarpals ad phalanges. The

ch wal study w haved on a case of metataran't transplantation performed by Cunéo and the experimental transplant tion was done on dogs. Cases reported in the literature ar also reviewed.

The histologic xaminations in the experimental cites about darge spaces let een the his risual canals in which there were no ostoblast. The disappearance of osteoblasts is certain indiction of the death of the corresponding part of the translation.

disappears.

In the cases of ast transplantation done in the author experimental och there as als ystendency to the case of as entire boat was used. This ared however according I the type of transplant When the recording I the type of transplant When the transplant to the control of the case o

marked When an entire bone a 1 aplanted absorption was much slower From these facts a secun resonable 1 conclude that the agents of biorption re not cells of the transplant hard remain abs and become changed int esteophyse. The latter may be derived from the boat bone or the

connectes tissue in the vicinity.

Michon findings in experimental ork the cut re-bone transplants con sacre him that total

t anytants die and become absorbed.

The foregoing applies to fresh hone transpla t.
Dead hone transpla to tred t. become eins nated.
If chimn toon does not occur they become encysted and them. I become is also.

The histologic annimation show nor only that transplant do but also bits when there is noteant treateant between their transplant in the least becompion in trainfed. In the latter case the transplant pers sat in its first form constrainting. Interest the same plant pers sat in its first form constrainting. Interest the same property of the property

Man canal

The author applies his findings to the arious
types of reput in expersion, on the hand

SURCERY OF THE SHING COLUMN AND CORD

Goocke C.; The Distancia of Transmetic Diseases of the Spinal Column on "Issufficients ber rebug" (schams) (the Diagnose der transatischen Mubetusebeschrank ugen und dar I sefficients vertebrac (scham) dech f Bis-Chir g. crit 75;

The arthor report the result of his studies of decesses of the spine is wounded soldiers () organic discusses of the spine athous hervous distributors () organic discusses of the spine the nervous distributors, (s) functional accuraces with out segant decision of the spine.

Mini fractures of the entelled bodies re fraquently autrospined as the 1te 7 juntous may be resurtably dight. I ractures which the entelled processes in broken of are also often displaced encouraged in many cress the breaking of of the transverse process. I am indeed fracture date to the control of the process of the process of the process of the condition is congir regarded insufficients extens.

before the compression of the interrective highest not definitely know. It can rective the desiration between the virtebre pressource dise regarding the presence of the condition it is any difficult determine the lors in the three of the drive search Compression of larger thingsom dusk is very rare. Gunshot Insectures are every to diagnoss from their resident

If the regard to laffammatory conditions of the solne the author at tea that is cases of tuberculous it mus be difficult to make diagnoss from the cry early aprintens and the operation of transman farriber secrets the difficulty. Ched amost the chroso deforming inflamm town is probabled operating described. It is found most commonly in the thoraction of the lumbur space. It is a primary degree ration of the cartilagueous dark in arrestness from the property of the property of the primary degree of the cartilagueous dark in arrestness dark in a cartilagueous dark in arrestness dark in a cartilagueous dark in arrestness dark in a cartilagueous dark in arrestness dark in arrestne

I jurk t the spinal column all aerons driver intrinces, benchilered nervous merceptibility threase meet be summed. I notional neuroes named he second the many and of organic these we the spinal column is en night organic things in the spine in scolores are of less associated with servous pymptom. Without doubt as important ride in naived by meaning the process correlatory of the product of the

Parin tests of the pathology of the spine three light on its developmental disturbance and socieptability to direase. Visituple sciencias na improtion factor in disease of the spine and organic neutron diseases. Persons the functional securities. Glossing accounts and is thost organic primal dislike tests are securities. In our especially predisposed; fluctional disease in 1 chain a sandificialis of their the transition in suniterrupted from highmerousement mortal directs organizing in testing. Brown, L. T. Beef Bone in Stabilizing Operations on the Spine. J Bene & Jet 1 Seri. 9 17

Brown reports the use of a heterogeneous bone transplant, such as beef bone in stabilizing operations on the spine

Thirty-four cases are cated, all of which were operated upon by members of the orthopened staff of the Massachmetts General Hospital and by practically the same technique. The enty-aline were cases of interculous of the spine, four ere cases of fracture of the spine, and one was a case of anterior conference when the process of the spine, and one was a case of anterior conference when the process of the spine.

poliomy chits

T cuty one of the patients were males, and
thatteen were females. Their ages ranged from 3
to 47 years. The duration of symptoms before
operation arred from air months to afteen years. I

so per cent of the cases of twberculous two distinct for were found in the spine

The spinits were made from beef risk cut at rapid angles to their fait surfaces to form its occuriod layers with cancellous layer between The risk was build for an born before the spinit was removed. The spinit was them builed twee for an born at result, casts of a combination of the price spining and the fusion operation. The usual postoperature care was p. cn.

In review of the cases from one to four and one bid years after the operation t it was found that nun-teed of the patients were in excellent condition, four method date, four were not betteffed, and four were proposed from the patients of the patients of

I the cases re-operated upon no evolutes of unitation or minimum our mis found around the bone spint. In one case the cancelloes portion of the spint was replaced by connective issue, and in two case the spint seemed to be trached to the spinons processes. In one case had be spinons processes become fused together. Histologic assumations of specimen obtained: these operations showed on evidence of see bone formation in two cases, the revisions on one, and active profileration in one differentiation of the spinons.

thor's conclusions are

The use of beef bone does not increase the operative risk.

The spint is tolerated by the body

J. There are certain technical dvantages in the
use of beel bone spinits.

4 A disadvantage of the method is that regener tion is slow

5 The dead bone is a sequestrum

Jose W Positis, M D

Bolessu, A. Lhermitte, J., and Cornil, L. A. Case of Complete Section of the Dornil Cord by Direct Controlon. An Anstono-Pathologic Study (Set an cas de section complét. de la moille doraile par contanto direct. étade anatomochaque). Re servil 9 101 92

Since the war various reports have shown that complete section of the spinal cord may be followed by inactional ecorrecy in the lower spinal trunk and that the automati and reflex activity of the segment below the kerson may be indicated by a series of manufestations of great physiological interest.

The authors case was that of "man who received a gumbot inpury in June 1918 and unvived until January 192 when he committed stoode. As the property of the pro

by increased Besides the referees of medullary tomatism the surhors socied in this case syontaneous utomatic movements analogous to those in total section of the decard cord described by Literatitic Eight month when his many the max move that short thinhis often the society that the surprise of the section of the sectio

The survival of thirty-one months in this case is one of the longest on record in case of complete transmits section of the cord. The intopsy showed that the complete necross of the cord was due to direct continuous of the spiril size caused by the

passage of the projectile

The case offers further proof that after the first period of shoot or medulitry come there is loop period during which the restoration of spinal submitters is indicated by the appearance of tendnous, defensor, and other reflexes. Sooner or later lowerer the kidney, say tacked by ascending nephritis. This probably sould have occurred ultimately in the nuthers case. WA Barry

Stawart, T.G. Some Observations on the Symptomatology of Spinal Tumors and Compression Penspires. Med Press 9 a cu 104
3 5

The author describes the igns and symptoms of leasons of the various anatomical parts of the spinal cord and gives—table showing motor localization in the spinal cord and a chart showing the segmental dailnotton of the spinal roots

When the spinal find is cut off by compression t arics in color below the lesson from pule straw to deep green and congulates rapidly. This may occur also is case of spensi tomor meningity

I Pott s dream The level of a extra-medullary levon me be determined on the basis of the local signs of spanal de formity and root involvement a if by the remote

ugus of changes in the referes

Disturbance of the vincuthetic ystem ma he aused by les in of the eighth certical root or the upper tw dorsal root. The amptom may be due i mitation (ophthalmos nd blatte of the popul) or transh se

The thor describe the ymptom and different tial di gnoss of anous form of conpressos para

piega a fullum

Leptomen giln Them weith ond two is ne craffs unknow but may be supplied Leptoractument trumily occu after the fortactle year of age Chronic leptoroeniaget! ith thickening trescause rare are on the cord or a terfere with its cir. culation. The a reptoms are widespread and indel inst. There is alight degree of bil teral spantic weakness sociated ith difficulty I make mention subjective sensations of numbries, and tangling round the last subrest detect ble sensors loss The onset of the condition is grad. I add to progress sion. Whe there are adhesion and the cerebru-I flow is obstructed the dur may be distracted hos the const iction Pulsation re stuble abox

nd been below the opstrution. The racknowl may be adherent to the cord. A local collection of erebrospinal flukl rass form prackbond or t These cases began ith diffuse motoms, but deelop agos of definit level of compression

2 Pach menutative. This and tion may be due 1 supplies on 1 berrulous. I other cross the cause Whe i due to phil i is availl spanish loss or local guanas tous secondary t spenal loss or condition 1 rule the cervical aid I mbut stripes are affect 1 When the condition is tuber, when it generally result from the direct atension of soun l carries. Root symptoms occu first adar the most prominent 1 is followed by rakmers taxes c la troph and los of sensation Cord's ractions or three months after the oract of root Proce 1 PITO PUTTIN When the condition is unilateral there en Beorn Sequent androme her tier beist ral

orapression paraplegi necus

3 Circumscribed slowly growing int thecal t more Three growths reneurofibromata fibrosarcomat endothebom ta, or ps mesonata. They are tinched t the laner side of the thera, t the arach pold acry roots, or pr mater. They trad t gross in a spindle shape parallel t the cord, bet ee the terior and posterior mots, and t mide t the l teril columns. The ra joint are located in the cert al and upper dorest remote. The roung of the amo toms depend pon the part of the cord compar. w.l. As the pressure mere as a pical paraplegas ath motor and sensors executors and change in the reflexes des lop. There to no sphincter disturb nees hen the Brown Sequent yadrome present but these poeur ben the pressure is bit terri-

4 Diffuse intrathecal tumors. These growths are eroctally aur omate of the sacral or dorsal reposa Dorsel region tumors are usually secondary to mediastinal growths. As rule the growth develops be fore the t entieth year of ge Root symptoms are arly severe and ruph! After the development of cord improves the lesson rapidly becomes complete Sucral region t more cause persocal pain, loss of sen ation in the sacral region incontinence of neme and ferres arting and paral art of the lower extremities and loss of the deep reflexes

5 I tratheral growths. These include hydrid t sts, sarcuratta, phrosarcumata, endothehomata prammomata, and hoomst. The m ponty and in connection with the roots or the thece in the modelorsal region. Fibrosari ema, and endothelion. occur most frequentl bet ee the ages of so and so Lymphotaccoma and round cell success secur bout the age of puberts. The stand symptoms consect of page in the back referred to the region of the tensor Local tenderness and deformits of the spane ar rare to be are root symptoms. Card s reptom re usually balateral ad begi gradually Rapidl growing atrathecal t more are assultsuccess t and carcinomata. Root sumbtoms are practically alw present ad spread rapidly from one tale t the other Blateral cord is especies develop suon after the root wantoms, and from

plet trans erse cord lesson queckly appears 6 Diseases of the pane lach git free to cost pression paraplegia. These conditions are taber culose sercome, and circumoma. The other describes the imploms and course of tuberculoss of the stune and it relation t compression turnblema The t berculous baces are compress the cord gun title critel alcolumn or tuberculous packs menings ma best up to the formation of a beyons bet een the cord meaning and deseared erteber. Relief of the pressure ma lead t an touching recovery of function. Hypermithesis at nd also, the level of the levon points more t an infective in chitis than simple compression. Car mone of the spine is 1 's secondary mently t cancer of the breast stomach testures rectain terms penstat longs, kidnes suprements of thyroid Most metastases occur ribi eighteen month to ave eyrs Metastan may be more of less properatured fleet agreement errebe and pelvis bones Surcoma to be primary or serondary ad tends t emain more loculated and t gross more Jos! his carcinoma Secondari sircoms spread repedl bercom ma pass t the ert beal canal

albout invading the strine 1 extramedullary cases root symmtoms are follos d hy sea of us of ement of the same side of the cord and later by in obsences of the other mile definit regenerated from as a parall extension of the implicates upward is almost Lace. Cord pres ure amptores the progresses dissoc tion seasons

loss may be us remot loss as more organization ringomy cha the symptoms are usually referred t the lumbur or ensual regions, but occasion

ally to the bulbur. Local as motoms precede the on set of cord symptoms, but the sensory loss is dif ferent from that due t a posterior root lesson Trophic disturbances are severe and may appear The Bros Sequerd syndrome is rare Def mit acamental loss is numual but upward exten son of the symptoms is common. Cord compres sion symptoms are freque tly remitt t Dissocustom tensors forema occur

Malera C Bt Ft. M D

Adeon, A. W., and Ott R O The Results of the Removal of Tumors of the Spinel Cord | Irch \ard & Proked 0 4 520

The results following the urgical t eatment of spanal cord t mora depend upon the duratio of th symptoms and the position is el, and t pe of the th spenal tumor. While the histories of pittent cord tumor re not al ay constant they gestive ad gi the first clear t the presence of such lesson Sessors disturbance is usuall the first symptom. This is associated a th motor disturbance ad followed later by exaggerated flexes below the cord segment in ol ed

The first operation for the removal of a mor of the spinal cord a performed by Horsley bout thirty fix extre go 5 nee then main such t been removed but man ha overlooked. The rat of progress of the disease de pends on the position and type of the tumor. I tramedallary neoplasma usuali progress slowly. Hard encapsulated tumors cruse conside ble pressure and marked paralyses fee months I umors of the cord ma occur in a part of the spinal canal their a crago incidence bughest th thoracs repon, next highest in the cervicodornal and lowest in the dorsolumbar region. While spinal punctur is of alse in the diagnosis atramedullar, tumors cannot be distinguished thereby from tramedullars

A review of the records of the M.). Clinic show pate to were operated for goingl cord tumor from J mary o to April o Surty four were males and forty eight were females

Lewis, D and Miller E M Peripheral Nerve Injuries Associated with Fractures 1 lun cas

verve sajuries are associated that actures much more frequently than is generally supposed. They are overlooked because of histy and incomplet exammation of the fracture

The injury mes from the slightest contumou from which the patient rapidly ecovers t anatom scal drymon and callus occusion is the demand surpcal interference

It is often unpossible to differential even bet een physiological interruption of the nerve current and anatomical division of the nery by the most careful

Ninety seven of the operation in this series were performed from 19 6 to 9 z and 1 seventy-an instances peoplasms were found. For detailed study the diseases the series were divided into nine groups () ext dural tumor 4 () tradural but extramedullary t mor 30 (3) intramedullary t mor 31 (4) ch nic meningomy ehtre nguoma of the sps al cord (varicose veins) 3 (6) echinococcus crat, (7) tuberculonia of the cord s nd (a) cerebellosrapal cord (8) gumma of the cord, I four of the case of chronic meningo

myclitis t mor was found t autones The verage duration of symptoms was twenty eacht months in Group forty five months in forty five months in Group 3 and forty Group months a Group 4. The other groups are so am !! that a definit average as not blained

Root pain was present in eight cases 57 per cent) of Group in twenty (66 pt. cent) of Group

twenty to (7 per cent) of Group 3 and in thur teen (54 per cent) of G oup 4. In Groups 5, 6. 7 A and a there were four cases of root but (at he cent)

In fift name case the t mor was in the dorsal region, occasionall extending int the cervical and the lumbar areas I eighteen cases it as in the cervial region in nine in the lumber region, and three in the sa ral region. In twenty three no tumor was found, the symptoms being due t inflammatory process laminectomies, t mors were Ĭ'n senes of

removed in eights fi (76 per cent) Forty three of

the tumors (5 per cent) were removed completely t enty six (30 per cent) ere emoved partially and sixteen ere of emoved I t c ty-seven cases no t mor could be found at operation, in four of these tumors er demonstrated I ter Seventy ause pa tients are living twenty to are perfectly well and t work seven ar impreved and able to do a little work twenty one are improved but not at work. and fourteen re helpless. I fiteen patients could not be traced. Seventeen died in the hourstall, and seventeen died subsequently at home. The average time between operation and death was two years

SURCERY OF THE NERVOUS SYSTEM

neurological examination, nd there is tendency t want too long for spontaneous recovery " ben recovery has not begun within three months after the mjury the mjured pery should be explored

nd any necessary operation performed Neurolyans is the operation which is most fre-

quently required. Resection of the humerus should no longer be done t permit end to end suture of th musculospiral nerve I such cares tendon transplantation should be performed

The prognous of injuries of the musculospiral nerve is very favorable

I the late ulnar nerve pubses with cubitus valgus transposition of the nerve to the f out of the elbow similaried. When bony outgrowth cause paraline, their removal and the placing of the nervous a healthy bed may be sufficient.

II A McKwoer M D

Off W.O. Experimental Results of Cable Craft and Tubes of Fuscia Luts in the Repair of the Peripheral Nerva Defects. Minor H. Uni., 92

Experiment cere conducted for the purpose of comprining the rapidity and completence of regeniation obtained by a method of braiging defect in perspective server, between of cibil graft and the purpose of the conductive server of the purpose of the conductive server of t

Lita a the same The operations were performed on does note ther a rathern and with sterile technique. The so the and musculosparal nerves wer used. I the control experiments of resection and suture the nerv w exposed and sectioned ith sharp scalpel ad immediately sutured with fine silk. In the experi me t th cable grafts the ners as appropri 4-cm portion resected, and an autogenous able graft of several strands of the superficul radial or the internal cutaneous ners or both as inserted The size of the graft as never less than three fourths that of the ners lat hich it was mire duced hers fine salk, one third of a trand of ho I panere silk on A 1 cambra perill was used length tw there eroplaced at each end of each strand in order that the funcul of the graft mucht accurately poroximat those of the nery unt high the graft was inserted. I fascisl tubulization the method described by kirk ad Lewis as followed The smooth side of the front lata t ken from the same dog was placed than t form the lang of the tule. The box of the t be was made t are that of

th serve epured.

The assemble ere examined often, the time of the disappearance of paralysis the bealing of afters, troph of muscles, see being noted. Am make with infected wounds ere discarded secreps) performed soos after death on those that died.

from causes not affecting the conditions of the experiness. Those that true full the termination of the periment wer killed sader either. The annual ere ethertized, the murcles supplied in the serve experimented on the exposed by reflecting the aking the conditions of the combination of the con-

sel the degree of trophy muscle too door power of voluntary motion, and responsed electrical and mecha seal stem it were noted. The serproximal and durial to the grift as cell as the graft, was disserted free the serve as it is to 5 cm proximal to the grift, and mech nical, gulranic old radge stem fation a applied the evit end of the drittl segment. Uter these examinations had been completed the animals wer. Lifted with other and the nerves removed for microscopic study.

Of saterest in the four control experiments in high reversion and settine were done were () the aboven of adhesion strongly the saterials, () the hormal appearance of the animals after from four to all mentals and the bestell condition of the elecnation of the bestell condition of the electrophysics of the saterial strongly and the response to proximag and electrical strain design pixel i the rol ted near proximal to the neutrolice and (i) the animal infrancesops peture of the

seen divided the utilities as a kick gaps we bedged the cable grafts the animals progressed, but note of all at those in the control experiments with each grafts the animals progressed, and the parally de dampetered, and the animals apparent to be easily became normal after from eight to ten mouths it he parally de dampetered, and the animals apparent to the mouths of the parally deal and there from days or longer a not 8 per cent. Pround personals were present and cases but the southern than the experiments with fascial tuber. Although the shade statement the fascial tuber before the see that the profit was not seen and fewer than the experiments of fascial tuber. The control tube is the graft was not seen and fewer than the temperatures.

ere filled largely with loose areolar times. In the eleven experiments with I could be that too all the animals resumed paral and and the animals resumed paral and and the animals resumed paral and and the care see which the muscle in of more of the animals which the muscle in of more than the animals of the could be an animal to the parallel to the parallel too.

I also to per cent respect to QT. The presumal neutrons was very large in every case adherent to the grait or close will fare, and the grait of the other parallel from the surrounding tower only in difficulty. Large amounts of florous becare ere see macroscopically along the grait, in most of the will difficult to the parallel parallel from the surrounding tower of a creater of the country of the state of the country of the state of the country of the state of a creater of the country of the state of the country of the

I the ther experiment in historial relative tions at appearance that I has stage the fibrout towns the high product and the fibrout tions have been also as the fibrout time and the freezil transplant contracted and strange lated the enabled near above, thus preventing the complete return of a faction in the nervised the complete return of a faction in the servised the chancilly of many prevent the return of a serial three colder grafts usual opencial in the grafts.

pla ed an a bed of scar torme.

The conclusions drawn are as follows:

I permentally togenous cable graft average of 4 cm result in satisfactory return of function, they requise longer time than end to end satisfactory desired the cturn of a notion is not so complete.

Fabes of attogenous fascs lat used to bridge gaps of 4 cm result in del yed and incomplete return of function, Il amy at all

Regeneration takes place through the (acral tubes. At first the ners elements are abundant, but later they are I mely replaced by alreas mane McGuire, E. R. and Burden, J. F. An Unusual Case of Sercoms of the Median Nerve. Surg. Gyme & Obst 9 EXXY 453

The patient was a woman aged 40 years who had been perfectly well until five years previously when she noticed swelling on the anterior surface of the nicht forcarm, midway between the wrist and the effow This re elling was not painful or tender Five weeks before admission to the bospital, the arm began t swell in the region of the tumor this swelling continuing until the arm was half again as large as the left arm and severe pain developed

Operation disclosed mass 8 in in diameter involving the median nerve. The nerve was divided t either end of the tumor and removed. The resulting

gap measured more than 9 m

The tumor was diagnosed on microscome exam mation as a rapidly growing, arregular spandle cell sercome originating in neurofibroms Five weeks after the primary operation the patient

returned with another swelling at the site of opera tion. An incurrent was made for diagnosis and enother serences found After extensive X ray treatment it was necessary

to amputate the arm. The second tumor was also a spandle cell sarcome HAMCKNOON MD

Lineti, E. A On Solitary Fibromynomets of Peripheral Nerve Trunks, with a Description of Case of Cystic Fibromyzoma of the Median Norma. Bril J Surg go 1, 20

The patient was a woman 4 years of age who had a lump in the right arm which had been growing gradually for four years. When first noticed, the growth was the sure of a hazel nut but at the time it was seen by the author it was as large as pageon a The only symptom was occasional shooting pain from the rate of the tumor down int th middle fineer

Examination revealed well defined, pamless functions swelling on the antero internal aspect of the upper arm slightly above the internal conclyle of the humerus. The tumor was freely movable laterally but not in the long axis of the limb. It was unattached to the skin, and elestic t the touch, but fluctuation was not demonstrated. Its essential connection with the median nerve was not coundered on account of the complete absence of motor and aemsory symptoms. From its proximity to the line of the nerve t seemed reasonable to ascribe the shooting pains in the median area to pressure. A diagnosis of soft fibroms arising from the deep fascia was made

At operation, November 1031 the tumor was removed Both resected ends of the nerve appeared quite normal End to end anastomoris was done with the elbow flexed, and the arm then maintained in the position

At the time this report was written sensetion was beginning to return but there was as yet o

evidence of motor recovery

The author discusses the histology of the tumor and shows are photomicrographs of various areas A brief instanced survey of solitary fibromy munita of pempheral nerve trunks is given

The conclusions drawn are as follows

A hemorrhagic cyst of spontaneous origin arising in a peripheral nerve may be benign

In the absence of more definite evidence of sarcoma, such as infiltration of the nerve above and below the lesson or adherence to surrounding truetures, it would have been adverable in the case reported merely to puncture the cyst and remove as much as possible of it wall without interfering with the continuity of the nerv bundles, thus avoiding the risk of incomplete regeneration after resection and end to end suture

CARL R STEDERS, M D

Comment. V norm, V The Surgary of the Sympathetic Nerve (Sympathicas Chronge) Spitals on xh, 54

Gomeon besefy describes the very poorly known physiology and pathology of the sympathetic nerve and the cervical sympathectomy first done by] boulay in 800 which was later applied with dif ferent results by Jonnescu as total and inlateral resection of the cervical sympathetic in Basedow a

disease, epilepsy and glaucoma

Gomoun states that the surgery of the sympathetic nerve ought to be better known in Roumania as the cervicothoracic sympathectomy also was done first by Jonnescu and hunself (both Roumanians) in the year 9 6 The patient, who had angine pectoris has remained well up to the present time. The abdommal sympathectomy was done by Jahoulay in 807 and later by Leriche and Haresen Gomoun. in the year 9 4, was the first to extripute the semi lunar gangha, an operation he called "solarectomy" and applied successfully to the treatment of tabetic times. The sacral sympathectomy has been practiced with varying results by Jonnescu ance one in vagmamus, scratice, lightning pains, and takes. and was piphed with the best result by Gomoun for the relief of pervice pain due to inoperable cancer of the uterus STOLABORT (Z)

MISCELLANFOUS

CLINICAL ENTITIES-GENERAL PHYSIC-LOGICAL COMPLETORS

Kirch, L. Observations on Cratic Eantheonatoms Tumore od the Genesis of Yentherstone Tumors in General (Urber cystrehe za thorastoese Gesch neist und die Genese der santbo-matoeses Geschwissiste im allgemeinen). Beitr

elle Pall par, itt. 74

The author has observed two a turesting cases of zanthomatous blustoma, one that of man so years old and the other that of a oman 7 years old In the first case the tumor which was the size of roose enz. developed on the medial aspect of the right knee. In the second case the neoplasm was

fungous growth the sue of a ben egg, on the out

aide of the left knee Both tumors had a cystic character Thear tanthomatous nature w a evident macro-conscally from the peculiar sulphur yellos and rust brown marbled appearance of the sections Histologic study revealed a structure consisting of t ments, one sarromatous and the other humbunenomtons, the latter hading to the formation of crists The fram cells characteristic of rapthoms had their

the lymphoid endothelium In the first case considerable increuse of the cholesterm contest of the blood as demonstrable Unfortunately sunday test as remountable u the second case As disturbance of the cholesterin metabolum is al.) present in cases of manthom atoms blastoma, the uthor believes that inder f orable conditions in preexisting tumors, such as the lymph starm in the hospharenoma in both of his CREEK. ranthomatous transformation of certain kinds of cells occurs as the result of the deposit of chokaterin fatty acid estern, and that thereby blastomata may be transformed secondarily t and hometons tumors Louis (7)

Shaw-Mackenzie, J. A. A Study in the Diagnosis of Cancer by Menns of Serum Resctions Lancet Q CCDA 150

This article dra Hention t new test for cancer based on turbubity reaction in the serum Saponified and other extracts of cascer traces were diled respectively to the serum of patients who were suffering from cancer and the sera then incubated t tr degrees C for uphreen hours. Thes thereupon formed permanent emulator or preciptate, cloud or the trace of cloud in the arium. As rule the other struct was diluted with pure sodium chlorule solution. Normal serion did not give the cloudeness mentioned

The test is semilar t that of Freund of Venna which is bested upon the observation that the isolated cells of carcinoma are dissolved by normal serum whereas the normal cells are resistant to curcinoma serom. The same at true of sarcoms. The destruc-

the action of the normal acress on the concernell w attributed to its fatty acids The latter are not pres ept in Carrinoma seriem

The test was used on 136 persons, afty-early of bom were normal. Only t positive reports ere not confirmed, one as a case of diabetes and the other a case of neurous P W Sweet V.D.

SERA, VACCINES, AND FERMINIS

Chiarl. D VI and Gamper E. The Calenda Excitability of Motor Nerves Following the Parenteral I Jection of Lieterotenessa Serum (Ueber d'us l'erhalten der gulranethen Eurepharten er motorischen Kerven meh paremerster Emrerte bung ertfremien Screen) Deutste Daie f Che 012. drnu sót

number of cases a prenounced sections fol loved a magic subcutaneous injection of serum courvalent to cm of tetangs antitoria, and there as also an abnormal condition of excitability is various much groups—the form of tonic clonic contractions. The course of the three cases in luch

these expensions ere most marked is reported In the first case the famal expression and transmi suggested tetamus, but ruling out this condition was

the fact that the traction appeared susultaneously th the serum exauthem and the fact that the symptoms chappeared athout remedial measures In the second case there as the possibility that the national had had local tetatous a few years pre viously following an inhery and that after second minry he developed an exactly sumilar condition after an injection of serum as he did when treated by the author. The third patient developed marked swelling of the arm after the meeting of became unable to separate the ja normally that patient had also been given borse serum

These observations led to a re examination of number of other patients bo ere given prophy lactic injections of tetanus serum. Reactions at marked as those in the three cases described were not seen, probably because the sera used subsequently were somewhat stale and therefore had partly lost their anaphylictic effect

The other examenations racinded the testing of the galvanac excitability of muscle (the determination of the threshold value of the cathode closure contraction) on percutaneous stimulation of the nerves, and the observation of Chrostek's facual perve phenomonon and of the plant and percoons serve phenomens After the first operation of tetanos serum and after re sajection, the galvanic emitability and frequently she the mechanical excitability of the muches as incressed. The territy and the duration of this hyperexcitability are subject t variations. Occasionally the condition is demonstrable only transeatly I general it seems to be proportional to the other symptoms of serum disease, but it appears

also as the only symptom of the eaction of the organism to the injection of serum

or panels are of the threshold values of the galvalue containty at very contrast, var a rapid salvan following the injection of the serim and a gradeal increase, protracted over number of days to the strenge value. The parenteral injection of the charge in the galvance extrability. The other daturbances observed affer the injection of serim are easily correlated with the recognized anaphy, hater resigns to which the described increase in the galvance extrability of nerves must be added as inparent of the contrast of the conduction of paters and the contrast of the conduction of patients at it returns the other occurs immediately stiff the linearton of the serum. Corrasian (2)

BLOOD

Conferen, A. A Simple Procedure for Testing the Circulation in Georgeone of the Extremities (Ein emiscine Verlabers are Professing der Zirkulation (ano-motoracher Strick) bei Gangrein der Extremaneten). Spielel 9 ziz, 34.

The question bether or not ampetation should be done in garners of the extremities in other ery difficult to answer In our Monormer introduced coefficients at method of accretaning the condition of the circulation. In spate of the value of this proceedine, however it as necessary to seek for another as it is very painful and in some mataness poperant it make the circulatory condition worse. The emblor has tried out the following proceedings the condition of the

With the patient standing up or lying dow a continuou line in traced from the proximal t the datal and of the affected extremity with a blunt nationment. After hard period pallor in this line the off known red visionostor streak popers. I take limb as normal, the streak appears quackly not yellow the property of the property of the post, there is no creations below that point.

If this test is made on the four rades of the extremity it gives an inact circular demarcation of the times which is well supplied in the blood from that hich is poorly supplied \text{ imput tion at the faults indicated by the test almost al.} = cuttled in primary beating in no case was re amputation necessary.

The author suggests that this procedure might be of alice in indicating the sit of an embolies

Womaner in (Z)

BLOOD AND LYMPH VESSELS

Moroscol B D The Conservath Treatment of False Antoniums (Zar konservatives Behandling der falchen Ancuryssen) Il system Med titisky Jamal 9 from p Nos 3-3 9

The author has devised an apparatus for toartic pad pressure buch is applied over the injured

vessel (femoral artery) shove the false aneurusm In one case it was possible to decrease the size of a fresh transmits aneurusm in Hunter s canal by daily persure for from sixt eight hours Prinow (Z)

Sencert, I.., and Blum F A Case of Arteriotomy for Embolum of the Arillary Artery Followed by Complete and Definite Recovery (Un cast d'artérotome pou obstruction embologe d Paullaire suit de goftroso coupilé et définitre) Buil dout ée milé Par 9 (curviu, &4

From a tudy of all reported cases of operative cleanages of embolated afteries Leptro in to a concluded that this treatment is of little value. Soon threadler Monay and Dumont reported the first case of embolationsy followed by complete success Settect and Blum in this article report a second similar case:

The patient was man aged 38 years whose right arm was completely immobile, partipled, and with out the least sensition. The condition was diagnosed as embolism of the straint of the condition was diagnosed as embolism of the vessel. An arterotopy with hierarctic of the vessel. An arterotopy with hierarctic of the cincide was decaded upon. The artery was opened in the subclaimment of upon. The artery was opened in the subclaimment from fifther extend of the period immobile. On dissection of the estates several collaterals in the vacuity were found corromously distincted. The embolism was near the inferior scapular artery in the base of the stillar patient, was figured hore and below the embolism. An incrinor about "a em long was then made in the seed or the embolism to no blood exapped, the humen being completely occluded by a clot. The clot removed: as 4 cm in length.

When th ligatures were loosened there was still no flow of blood. The incase was therefore cateeded upward. A second clot, or rather nother part of the first one, was then found. This also was structed through the wound. It was of the same use as the first portion immediately following it removal the blood flowed shandandly in spit of the ligatures reaction. After careful suituring of the arternal breach the ligatures were removed. The radial pulse expision immediately full in dit trong an hour later the Quasside and partly and hour was warm with the Control of the cont

EXPERIMENTAL SURGERY AND SURGICAL,

kross, I Parabious and Organ Transplantation. Surg Gyme & Old 927 XXX 401

The problems connection with tissue and organ transplantation is miterasted workers both in the baboratory and in the operating room. The many failures occurring in the earlier period were due to leak of sepail, improper tech sque etc. but when all these factors are limited with the said of the said of the said of the said when the said these factors are limited to obtain the said when the said t

the absorption of the graft. In a great many cases in which the technique was flawless and the aseques beyond question, a totransplants of entire organs leave been successful. Also homotramplants have failed.

From the results obtanced so far it may be concised that the graft acts as a foreign body and meets with the same treatment from the host. The theory upon which the study reported in his arricle was besed in that a parabonic minor removes the chemicablological differences between two animals of the same species and makes the tinues of

mais of the same species and makes the traues of graft taken from one of them bear the same chemicobological relation to the host as the host's own timose.

The programments were curred out on young adult rais of approximately the same sey and sength. Demog the course of the paraboxic operation frequent intelligence were encouraged, such as intestinal obstruction, poeumonia, and undertournous with starvation of one of the pair. The days after the paraboxic operation the graft intell was transplanted. Half of one lobe of the thyroid gland substitution of the strength of the strengt

pleted the operation. Forty four pairs of animals were used in the experiments. Of these, three pairs died before transplantations of the thyrod times, five pairs were lost, and seven pairs were decomposed to such a settent that histologic findings were worthless. This left thirty-tw. pairs for study. Of this number twelve pairs aboved absolutely no trace of the m.

planted tesue

parties tensor of attegrath and homografts were made, and actions of the throde from the para hote annuals were staded with these. With the encopsion of the graft is now pass all the grafts showed marked lymphocytic militration with very hits apparently norsal throne shots are remaining. Therefore the paraboust shift not neutralize the chesicolological difference, if my thing, it

seemed to make them more nations.

As the result of his experiments Kross concludes
that purchosis does not minist those wiknown
agencies which in no many instances, interfere with
the success of homografts of highly developed organs
such as the thyroid Gunner E British, M D

Mayor J and Ity A. G. Stadies on Gestric and Decolerat Ulcar The Relation of Epigestric Hernia to Gestric Ulcar-a Collects and Epigestric perimental Study. J. Leb & Clus Med. 9 19, 17.

The authors interest in the relation of opigustric berms t gastric older as first aroused by the case of a man 2 3 cars of age who complianed of pain is

the epigestrium, belching, and constitution occur ring regularly two hours after meah. This patent

as kept under observation for some time said as pe on the sider treatment recommended by Sapp but at the and of six weaks no improvement is noted. An operation to correct the kernis revealed a small globular mass of prepentioned fat continal small globular mass of prepentioned fat contincional defendance of the protection of the size partial peritoneum. Gross tospection of the stromach showed no ovidence of time. This appendix, which was also reasoned, was normal. Two years have chapted income the operation and the patient is

still free from symptoms.

I their experiments the authors employed low-teen dop. In each autoral an expetitive herms produced. During the course of the experiment to be produced. During the course of the experiment the stomach was noted. This, the authors segreet, might be regarded as an area of lessenced resistance sade potential site of ideer. I main it celd be of greater importance because of his usepital posterior and therefore in main might lead to the formation of a steer more resulty than in the dog. Calcium siere steer more resulty than in the dog. Calcium siere done a throne uker is according to the produce of the control of the cont

curred in man or has never been reported. The authors prefet to believ that the association of epigastine herms and gastine sleer is metrly is cidental. The uncidency of such as association (15 per cent) they explain by the supposition that case of this kind are reported because of their interest whereas cases of enguirite herms without provided reported because they are relatively

COUNTROL The character of the distress in the experiments was particularly enteresting because a gastric nice was not present. The pain was almost strained with that of gestine piecer being doll, grawing and setermutent. It occurred in the apparatrum one or tu hours after meals, and was relieved by sods and food One investigator ascribes the general of this pain to the tennon exerted on the hermated ementum by the vigorous contractions of the storact. Arch occur intermittently. The authors concur in this opinion and behave that it is supported by the fact that alkalies reheve both types of pain, the pain of gestric ulcer and that of eparastric bernis with omentousk, inhibiting the vigorous tonic contractions. These contractions begin one to two hours after meals, continue until the stomach is empty and their dri appear until hunger period ensure. The theory mentioned is further supported by the fact that course food excites and increases the pain in cases of epigastric bernie

In making summary of their sork the section tast that they are smalle to demonstrate experimentally in dogs that sprayme bemine with one-touche as creative factor of gastne after. They suggest that the tendency is local pocket formation as the will of the stounch brought about by the

ner cent

togging of the omestocche may be an etiological factor of gastre ulter in man. They behere it it has association of gastric ulter and expansion hernis m man be accidental, the hernis having no direct enological relationship to the ulter: Expansion have man does not cause hyperacidity the gastre industry in root, cause hyperacidity the gastre industry in root, cause are within the normal variation oversito is producted definitely.

Grosca E Beres MD

ROUNTGEROLOGY AND RADIUM THERAPY

Kirklin, B. R. The Roentgenological Study of the Pathologic Gall-Bladder Ass J. Rocatrusi U. 713

A large number of gall-stones cust no shadow in the rocatgrongram, not even as much as the bile in which they are contained. George has called attention t the fact, however that while a single stone may not cust a shadow serveral stoner have a density which, with the changes in the gall bladder will produce a characteristic shadow sensity recognised

when a reasonably good technique as used.

The normal healthy gail bladder is not vasual in
the nontigenogram. Therefore when it can be recog
and definitely it is puthologo, it is enlarged,
its walls are thickneed the bile is direct in color
(which means mercised denuty) or there are stores
in the gail bladder or direct. When good X-ray
technique is med any of these conductions will east

fairly demes and easily recognized shadow. To obtain additional eridence of gall bladder pathology such indirect evidence as may be obtained in the nonque meal may server to corroborat the direct findings, or in the absence of the latter may sure information of a nature to aid greatly in the diagnosis. In some cases the gall bladder may cause pressure upor the discheduler pressure upor the descent of the attention of the strength of the discheduler than the second of the colon, or the second displace the proton and the colon, or the second displace the proton and the colon, or the second displace the proton of the strength of the second displace the proton of the strength of the proton of the second of the second of the proton of the proton of the second of the second of the proton of the proton of the proton of the second of the

Shortened when the gall bladder is diseased.

The technique of the \-ray examination of the gall bladder is as follows:

gat outcome is a solows. The patient is mattered to take dr of compound because pos der each sight for its or three nights personally, and to eat so exeming meal the d v personal to be realisation on breaklist on the morning of the examination to breaklist on the morning of the examination of the control of the control of the examination of the control of the cont

pressure involving the stomach and duodenum, or ther findings which might have been musicd in the first series of films. The bepatic flerure of the colon is studied at eighteen to twenty four bours.

During the past twenty-eight months a complete roentgenological gill-hladder study of 71s patients was made. Roentgen-ray evidence of gall-bladder pathology with or without stones was reported in

pathology win or without slows we reported in § cases, approximately 35 per cent. The operative findings in 40 these cases were also at died. The surgeous reported that the gail bladder was sorm I to palpanon in seven of the cases in which positive contensological findings were reported. In other words, the recutgem my conclusions were confirmed all but fourteen cases, one porcommetely or if

The thore experience leads him to the conclusion that careful roentgenological vestigation

of the gall bladder region should be made a every case referred for bdominal study

Accurat Harriva, M.D.

Lain, E. S. Treatment of Cancer of the Lip by

Radiation. Arch Dermit & Systs 9 1, 434

This is a brief presentation of the results 1 248
consecutive cases of cancer of the lip treated by

the author with the roentgen ray and radium in his privat practice between 1900 and 197. The diagnosis was made largely from a clinical rather than a biopty examination. Most of the crees were of the practice or squamous cell warrety.

Since about 19 5 these cases have been classified into three groups, according to the location of th lesson upon the lip and the degree of its development which largely indicate the prognous

Group comprises those lessons which are situted wholly on the cutaneous border of th. Ip, are not deeply indurated, and are without palpable or other evidence of metastasts in adjacent glands

Group consists of those in which the leason most commonly overlaps the mecons of the lip and is deeply indurated, and the discent submental or enhancillary faints are pathells. This group in choice also few cares of recurrence following previous trainent by the application of custies of surgery. In Group is or cases of obvious metastican moves than memodately adjacent glands. Approximately this estire group is composed of patients who have their repeatedly other methods of treat ment and whose crodition is hopeless so far as a final curs is concerned.

In the treatment no invariable rootine, was followed except as regards certain proved or unquestioned procedures. One of the latter was the radiation of the submential and submaniful glands with kard or gamma ray is all cases of cancer of the regard of the treatment of mentationing area for the treatment of mentationing area for the regard of the regards of the re

filters of from 1 to 4 mm of aleminsum. Later from 25 to 5 mm of copper was added and the radiation was given for from twenty minutes t one houat each position. During the peat its or three years, the glands have been given a dosage of no ky 5 ma at a focal distance of from 6 to 8 m for twenty five to forth five learning the presence belong re-

peated as indicated in air weeks

The technique used in a certain type of case of Group in which there was proinferating keratotic elevation with only mild degree of militration, consisted, first in the application of o- or so-negoplaces acreened with Dam of alumnous for period of two or three bours. After ten or fifteen days this canned reaction which as followed after twenty or thirty days by degeneration and perhaps an exfolution of all superficual pathologic cells. Before this reaction began or immediately after the first application, a plaque of from so mem was applied with screening of a mm of brass for eacht to twelve hours. This filter permitted only about 5 per cent of the hardest beta rays to peer and yet utilized all the gamma rays for deeper effects. The deeper effects, which were produced in from four to six weeks, consisted in a perceptible softening and possibly complet disintegration of the deep cellular structures of cancerous nature

In the treatment of Group a, leasons of deeper and more attrastive divelopment, or of the squamous or the precise-ord analyzing to or so-upm plaque of radium screened with jim of brass was first applied over the leason for from ten to fourteen bours and their tendered within few day by pack of from one to too mpm of radium screened with min of thress and placed on paid of gauze from to 1 cm in thickness. This pack as placed from first probable metastass for total of from fifteen to twenty hours and the application as repeated within few days until a total of from a repeated within few days until a total of from a repeated within few days until a total of from

one in a comman him had been given. In certain class of indurated or deeply nodular caseers of the lips the application of the plaques was followed by the macriton of as many radius mediles from to 4 cm apart as were necessary thoroughly to reduct the eather area of the cancerous around. These erreleft for from three to five boars.

I the treated cases such belonged t Group the percentage of cares was of + In Group

is noted that since the use of the more recest and much improved methods of radiation will heavy kilo voltage and radians packs or who radium needles are inserted into the glandsian metastases the percentage of cures falls not far short of that 1 Group.

The author draw the following conclusions

The cellular morphology of cancer of the by he less importance in the proposers than the location of degree of the development or the age of the strent A pacific or segments of cleaner to the safe stage of the growth will modern degree the stage of the growth will modern degree the stage of the growth will modern degree the stage of the growth will be set to the safe of the spirit as done the basel cell anerty differing only at the amount of radiation necessary and the technique of its application. Statistics writing day but chooses and laboratory findings now justify the conclusion that cracer of the lips a perhaps more assemble to surpery and in most cases radiocherapy. I to be preferred.

Pinhler G. E. Cancer of the Lip Treated by Electrocongulation and Radiation And Domet & Sypic 9 vs 438

I the latest stages of enters of the lip another relations nor electrocongulation nor say other form of treatment can be expected 1 cere. For seccentify results cancer of the lip must be trained early and thoroughly. Thorough treatment mean relation whether tere there method is used in addition. It is poolly locate measure every point is intrinsion affecting the lip should be removed. If thorough 1 estiment as given in the early stages, predicting the cases will be cases wi

The uthor has treated a cases of cancer of the pin has prin to class. Inglety of them were primary breaty recurrent of the early patients in pinsars by case seems four recovered and has a remained we from several zonoths t ciphteen years. To deep of continuation of the deseace, and to know here had not been a contraction of the deseace, and to know here had not been a contraction of the deseace, and to know here had not been a contraction of the deseace, and to know here had not been a contraction of the deseace, and to know here had not been a contraction of the deseace, and to have had not been a contraction of the deseace, and to have had not been a contraction of the deseace and the same had not been a contraction of the deseace and the contraction of the deseace and the contraction of the contra

recurrence. The result in to other cases as as also to the testy putests with recurrent cancer of the lap, only eight recovered. The fire patients given postoperative treatment has remained ell, though none as subjected to bleck

dissection. Much depends on the promptness and thereads new with which these patients re treated, but me part at least the outcome depends also of be nature of the cancer and the degree of us such many. The effect of radiation wast to prompt or failure as upt i result. Thorough radiation is massed to constant say from the very beganning.

and by radium han t can be combined to advantage is most important

Selection of cases as necessary to determine their aduation should be combased as the electrocognitistion. If the tensor is small and its removal all not cause too senous defect in the lip, determined by electrocongulation of the fedored by

more prompt and more satisfactory results than radiated alone By such destruction the discussed thesus is macroscopically removed in much the same manner as the surgeon removes t with the knife, but the blood vessels and lymph channels are not opened If the cancer involves the entire hip or even half of the lip, such preliminary destruction by electrocografation is impractical unless some means of closing the mouth by a subsequent plastic opera tion can be foreseen. Generally speaking, thorough tral should be made first with ppheations of radium in advanced primary cases. If radium is skillfully applied, good results may be experted In some cases, however aly marked temporary improvement may occur stage being then reached in which the disease is at a standard or begins to progress in spate of radiatio At this stare, complete and thorough local destruction or complet surposal excession is probably the only procedure posnNa

Electrocoagulation connects in the coagulation of the diseased areas by means of the high frequency current. This current is not selective in its action. and will destroy the tessues radiating outward from th point of application. It cannot be used in areas in which essential structures, such as important blood vessels or nerves, are located in the line of destruction Beyond the actual congulation there will be some which will be superheated ufficiently to destroy any cancer cells, but not sufficiently to destroy the healthy tassue. The defect after the patient is well does not nearly equal the amount of diseased their removed. There is, apparently, a regeneration of a part of the tiesu removed host is renerated in the tissues. It is the penetrative value of this form of heat that makes it more dearable than that obtained by the thermocautery which destroys only by transmitted heat and there fore is essentially more superficial in its effect

Radiation is indicated in all cancers of the liv whatever other treatment is used, and sufficient radiation must be employed ctually to destroy the cancer cells. If patient is to be operated on surpcelly preliminary radiation with full crythema dose abould be given over the hp and chin and in the submental and submaxillary expons and

similar admitson should be given after the opera tons and to and three weeks after the preliminary treatment. The patient should then be kept under observation for several years, and more radiation should be applied if ther is the slightest mgn of recurrence. The same type of radiation abould be added to electrocoagulation and can be applied most practically by means of the rountgen ray For this purpose the uthor uses a g in spark gap ith 5 ma of current through 6 mm of aluminum

filter at distance of 50 cm for twenty fiv minutes The time must be governed by the radiation value of the instrument used

If sufacent radium and sufficient kill in is use are available, most, and perhaps all, local cancers of the lip can be cured. This treatment will requir

mor time, more skill, and more patience than the combination of electrocongulation and radiation. b t there will be more preservation of timue and a better conneuc result than can be obtained by any combination with survey or electrocoagulatio If radium is to be used for the local destruction of the cancer with preservation of the transe, the local tractics must be kept saturated to the limit of tol eration of the normal structures until the cancer entirely despocars. The ubmanilary regions can be treated by surface applications properly acreened

If metastatic nodules are palpable, they should have recliminary radiation as described and abould then be dissected out or treated by the insertion of radium needles sufficient to destroy the disease Radium needles of mgm each may be inserted cm apart throughout the diseased area and left in

place for eacht hours

The uthor draws th following conclusions Any figure or crust on the lip which persuats longer than month should suggest mahanancy Local destruction by electrocoagulation fol lowed by thorough radiation should effect cure in practically all cases if it is done early

3 Thorough radiation by radium or the roentgen rays should be given over the lymphatics draining the discused area In cases of recurrent carranoma the results are

m ch less saturfactory

t Metastatic lymph nodes should be treated by surface radiatio and then by radium implantation of CIONOR ADDLESS HARTING, M D.

T pecia, L. Carcinom of the Tongpe and Its Treatment with Radium Arch Dermai & 3794 0 2. VL 424

Cancer of the tongu is seen most often between the fourth and sixth decades of his and is much more common in men than in women. It occurs most frequently on the side of the toughe. Pathologically it is practically always of the squamous cell type Among the etiological factors, syphilis and tranma produced by rough teeth and the use of tobacco are of prim importance. Since the often preceded by such conditions as leukoplakia and chronic ulcer the prompt and thorough treatment of such leasons may prevent its occurrence. Every effort should be made to differentiat it from syphiles and tuber culoss. At times this differentiation is difficult

Operation, which has been the accepted form of treatment, is very in tilating, has carried a high mortality even the most skilled hands, and has mortality even the most skilled hands, and has given few cures. During the past few years a um per of physicians have treated cancer of the tongue by electrocoagulation, morally in co junction with radiotherapy. In capable hands, these methods have frequently given satisfactory emilia

The treatment of carcinoma of the tongue with radium has many advantages. In the first place, there is no primary mortality Secondary death. due t harmorrhage or infection, is far less common after radium treatment than after surger,

palliative result can be obtained in the majority of the cases with radrum treatment. On the other hand, even if the patient survives operative treat ment speech is greatly impeded, the patient is able t eat only with great difficulty and there is frequently increased rapidity of growth of the proplasm It is still impossible to estimat the per centage of cures obtained by radium because the method has not been in use long enough and because the majority of the cases seen are those which the surgeon considers boneless. The great disadvantage of radians in these cases is the painful reaction. It is impossible t extinst the severity of this in

advance. In some cases the period of reaction was abort and the bealing of the nicer and softening of the lesson were prompt. In others, the amount of suffering was out of all proportion to the extent of the lesion and the chalcul appearance of the exciton No satisfactory method of combating the reaction

has been found

The ideal method of treating these cases counts in Inserting tiny unscreened t bes of radram emanation as described and first dose by languay and Oukk of the Memorial Hospital of New York City It is best to give the entire dose at one sit ting and to seed the entire indurated area with the emanation tubes (each of which contains bout a me) merting from five to ten or more according t the suse of the lesson. This gives an even, intense radiation throughout the ternor mass. I addition. crossifire from the surface by means of a radium plaque or the application of a number of tubes is sometimes used. The reaction occurs a little earlier following the was of buried bare tabes of emanation than following the surface application of radium It begins as rule in about arren days is usually at its heatht in from two to three weeks, and then gradually diminishes. This reaction courses of an increase in the swelling with burning pain and often an increase in the asse of the lemma due to ulceration following the separation of the slough A reaction on nortions of the mouth adjacent t the area treated constant and often painful and unpleasant feature. I I worable cases, after the height of the reaction has been reached, the lesion softens rapidly

and then beat slowly Probably the method next best to the burying of here tubes of emanation is the insertion into the tumor man of steel peedles contaming radium element. The number of these and the time of exposure depend on the strength of the needles and the saze of the lesson. This method probably causes more turne destruction than the bare tube method and does not give such an intense local radiation. The nurface application of tubes or plaques alone is certamly the least satisfactory form of treatment and

can be expected t give no more than pallietive results except in the most somethical cases At the same time that the torque lesson is treated the cervical glands should be given a massive dose of roentgen ray covering three areas, the front and the two sides. If there are palpable glands that

are chancally mangnant, three should be removed about to weeks after radiation if they are operable If they do not appear to be operable, but tubes may be buried in them at the time of a portial oper tion or inserted through the skip under local sucthesia. If no glands are palpable, the patient should receive t or three courses of roenteen ray treat ment and be kept under those observation as long as possible. If glands develop under treatment, they should be operated on I once and the reenteen my treatment continued after operation. During opera tion, bare tubes may be buried in any suspenses area. The technique of the reentgen ray treatment has been constantly changed. During the last year the dutance and the acreeany have been on siderably increased, with apparently better results The application of a rathum pack t the neck at these cases has been given up as neconomical and

no more effective than the roestness ray During the last two and half years fourteen patients ath carmoons of the tenane ha been treated by the author. Four era clinically free of the disease to of them the years one, one and had years and one six months after treatment. Fry showed cervical metastages at the time treat ment was instituted, and for of the others developed an involvement of the glands during treatment None of these patients survived. It is reasonable to expect that with improved technique it ill be possible to ture is per cent of unselected cases of carcinoma of the tongue by radiation

ADDRESS HARTENA M D

Freer O T Carcinoma of the Larynx Treated ocally with Radiora Emenations A Chaical Report J in M Au g hour bor

By means of an apparatus which he described in detail the thor has been able t apply radium number of cases of caremonia of the treatment t larynz most satisfactorily. After the induction of local anasthesia of the oropharynx, the base of the tongue and the lary ax, the specially devised holder containing four radium emanation tubes is placed at close to the growth as possible. The dose found best in the verage case is from soo to you soc for one bour repeated every three t seven days suit from 600 t 750 mc has been used. The reaction ss usually moderat and the cancer thaspears rapedly Early and soft medallary carcacousts may despress after only one treatment of 50 mc for one hour Irradiation up t the full dose should be given, however even though it causes sharp reaction

Thirty two cancers of the laryux ere treated by intralaryngeal avadiation. Three of the patients were mornbund when admitted and soon died In t enty-two others the cancer was in an advanced stage In only seven was tim an early stage Foor of the cancers ere very resistant t uradiation I two of these, early hopeful progress was followed by a third there as no further response to the ray an excessively prolonged reaction which had not

ceased when the patient died of posumonia. In the fourth case, the cancer progressed after temporary improvement and then could be checked only

temporaniy

In eleven patients, speedy complete disappear ance of the cancer and its symptoms was followed by return of the growth, the aver se time between the last irradiation and the return being four and one-half months. In seven of these patients the advanced state of the cancers I voved a rel psc, all being large tumors deeply invading the tissues. In four of these cases of recurrence the cancer was again removed by renewed irradiation and ther was no further relapse. The fifth was being successfully treated when the patient died of beart failure These four cases, with ten in which the cancer dis appeared without return after the first irradiation, make a total of fourteen in which the cancer was completely chiminated and the patient became clinically well Deducting the three cases of mornbund patients lea es fourteen of twenty-nine, or about so per cent, in which there was clinical recovery. This is a good percentage considering that in twenty five of the thirty two patients the cancer was in an advanced stage and thirteen of the patients had extrianc cancers, that is, cancers which were inoperable by lary gettomy

The author's experience has led him to the cochasion that external regulation is much too feeble t be efficacious. By virtue of its select sufficient strength radeum emanation applied within the larynx offers far greater chance of cure The amount of reaction after irradiation aries, but only in the exceptional case is t ery intense and prolonged Renewed symptoms after pourent cure invariably mean recurrence. Recurrences usually react to re arradiation in much the same moner as

the cancer reacted to the primary readiation The prognous is best in cases of early uperfici f cancers on the cords or in the arytenoid region which do not unpair cord motion. It is less I vor able when cord is fixed and when deep a dema of the arytenoid and ventricular band region reveals entrance of the cancer into the lary ngeal muscles or

perichondrum

Starrhous cancer with etracting distortion of the interior of the larynx but no orderna and with little rathle accolusm a as found in orable for pradiction. as were also soft cancers of rapid growth little penetration, and large twinor formation. Squamous cell carcinomata with whit fuzzy surface may be resistant, especially when they cause pain and deep of orable symptom is intense, pro longed reaction ith ordenia nd false membrane formation. This above either weak resistance of the tissues to radium or multiple deep cancer foci Early glandular carcinosis usually selds readily t external irradiation from distance with from 500 1,000 me for seventeen hours, as employed by Sumpson and Heaher The outlook reunfa orable when all of one side of the neck including the inf nor trangles, is filled with gland cancers and when

paralysis of the recurrent laryngeal and hypoglossal perves is revealed by deep invasion of the neck

The treatment of cancer of the larynx by irradia tion by the method advocated contrasts very favor bly with operation. By its selective destruction t causes the cancer t vanish leaving the normal tissues intact. It often restores speech and the nor mal structure of the larvey. The penetration of the rays clears way not only the cancer but iso th hidden cancer foci in its surroundings which the knife cannot reach. It offers the patient about a so per cent chance of being freed of the cancer other torce or by the irradiation of recurrences Therefore emanation should be the first and laryngectomy the last resort

ADDRESS HARRISTS M. D.

Barringer B S Technique and Statistics in the Treatment of Carcinoma of the Bladder by Radium. Am J Rocutecnol 0

I the treatment of carcinoma of the bladder by radium the application is made intravesically t growths confined to and around the bladder neck. small papellomata, pedunculated papellary carci noma (if the pedicle can be reached) and infiltrating sessile growths not more than a cm diameter Growths other than these are treated by the suprapubic method. This group includes extensi tration of the bladder wall large and multiple tumors, and doubtful cases

The technique employed in the intra cucal meth

od # ## follow

By means of a flexible apring bolder used through the sheath of the Brown-Buerger operative cysto scope oo me or more of nacreened radium are held gunst the tumor for half an hour while the tumor is being observed through the evistoscope. This is repeated every two erks or less often if the t mor is disappearing satisfactorily. If the neoplasm appears solid or hard or has n indurated base t may be treated by thrusting into ta base or the indurated part a radium needle acreened simply by the steel of the needle. If the tumor is more extenil t is papillary in character if the pathologic examination shows t to be a pure papilloma, and especially if it is around the bladder neck, the treat ment is often begun by placing in the bladder t tubes of screened radium (6 mm sil er a mm rub

ber) These tubes are inserted through the sheath straight cystoscope, tied with truoz. left place for varying periods of hours, and then pulled out of the wrethra by the ttached string As rule the thoruses t tubes of 50 mc for fiv or sux bours. The alue of such radiation is, first to deter some how the tumor eacts to radium second, t stop the bleeding temporarily so that cystoscopy will be possible third t destroy that portion of the tumor around the internal prethral orifice

The suprapulse application of radium in extensi carcinoma is made under gas and it) gen una sthesia

The bladder is exposed and opened Sponging of the exposed tumor is restricted to the minimum in order to prevent bleeding and the spreading of times cells. Protringing portions of the times are started of with a simple was sairs. If the times for started of with a simple was sairs. If the times is fast and to pepullary in type, poon of it is removed. The papullary part is seared off: Inclust the exposure and treatment of the base. I the industred parts of times a bare radium tube (y mc) is implainted to times a bare radium tube (y mc) is implainted by the means of a benefit in each square centimeter. These bare tubes are part 1 to the extreme edge of the times. The blacker is filled at the part can take holder in the said to per cent alcohol feer the method of Beer (three junnites) order to hill anytair, tumor cells addroperest implaintation.

drained th a small rubber tube. It determines the small rubber tube. It determine the also of radmin removal of blad der carcinoma comparison is made bet een the realist obtained as in radium and those given by operative treatment. Three groups of cases are considered, via operable cases, unoperable cases, and those in which operation is performed as an adjunct to radium treatment. If the incorrenble group are

It is then closed with plain cateut and usually is

placed
Multiple carcinomata or large carcinomata
with a base more than 4 cm in diameter

Carcinomata which have affected the trigone and posterior grethra

a Carcinomata which have been operated upon

previously and ha recurred

4 Carcinomata in persons hose age or condi-

tion contra-indicates operata e removal.

Ten operable said twenty noperable mane treated with redding are order to detail as regards the gross of memoryope pathology in complications, the method of applying the radium, and the results in method applying the radium, and the results in method from the bladder. The two parts are more of from the bladder. The two parts are more of from the bladder. The two parts are more of from the first seen. In security moperable cause of bladder carminous, the tumor cartinosis with the tumor cartinosis becamed after decreased. In one of these three the recurrence was top out the bladder the other it are being treated. One patient ded from radium singuiance of the bladder from radium singuiance of the bladder.

Brief consideration is given to tomors in the third group. Their plus bladder cancinosities were treat ed in this w.y. In only two of these cases might the timore he been regarded as operable. In a cases, it was so large that the bladder was not opened, but radium was explained in in In twelv of these tharty-dive cases the curronous had been removed from the bladder. An interior of these therety-dive patients are irragticed as a treat of the contrary of these three-divertions are irragtionally as the second of the contrary in some hoppers and hastired. On the contrary in some hoppers can the timor's growth was retarded, the spa of liflenthermed, and bleefing stopped.

Scholl of the M .) Clinic reported that of sinety four patients operated upon for solid carmonia of the bladder surjuent (), per cett) are dead after an verage duration of h of seven and half months, and invasivy seven (8 y per cett) have h we an a crage of three years and three months. Testy per cent of patients operated on for infiltrating oren noms deed during the first month after the operation, while radium removal had no puncedure mortality.

The following conclusions are reached

Rathum removal as supersor to surposal resus. It ratus because it can cope with moperable cases. If ratus removal can be effected superapolecular the time of operation is aborter and the kidneys are less disturbed by the operation. Many so-called operable tumors can be removed through the struktra without operation. Anones Harrows, II D

Burnant C, F The Results of Treatment of Carcinoma of the Cervix, with Statistics and

Technique d.m. J. Resulgand 9. x. iz. vij. Surpical removal in the cry early stage of the condition has a low mortality and morbidity and rerailis in permanent cure in considerable number of cases. In moderat involvement of the purparentness and ginal walls both the mortality and morbidity are inscreased and the percentage of ceres in degree processing of the cere in de-

creased I cases of externs parametrial or aguaall involvement the mortality is definitely present, the morbidity greatly increased, and the cores me ery few. In cases of fixed parametrial master and ery extensive rapinal, bladder rectal, or repeal

en entenave vagunal, bladder retail, se repeau giand involvement there are practically no enter Local treatment with radium has no mortality or morbality in the early esses and a very substantal perceptage of permanent curse. In the extremeborderhas operable cases the mortality and morbid by are low the percentage of short chased cere ever him and the necessation of lost chased cere ever him and the necessation of lost chased cere.

borderibis operation cases the foretainty and notice or y largh, and the percentage of short classed contents of the property of the property

Radiation from the surface of the body the shibmen the beck, or the premean has been exployed chiefly as a method supplementage other forms of treatment. In the presence of extenure stand metastares this method sometimes resulted as marked relatification gain as well as some threat-wathe messes but so thing approaching a some threat-wathe results obtainable by the Estangen northod of treatment it hasply penetrating recentigar tery atould be at subset is obtain a statistic of earn expectally in fairly early cases, so that the relatialise of this method and residum therapy could be

determined
Of 3 cases observed by the author ath Kelly
and reported a previous communication only
fourteen era operable. Tea of the latter era
treated by combination of radium and operation,
and four by radium alone. At the time this stricks

as written, more than seven years after the treat ment, five of those treated with operation and radium and two of those treated with radium alone

are still alive
With regard to the technique the author tates

that emanation has been employed for a number of own material of radium element. Appheations are ordered and arranged to fit the requirement of the particular case. When the cancer is limited to th cervat one tube as placed at the internal os, one it the cetternal or and four on the cervar. In such cases total of 3,000 mc-hrs of radiation (100 mc hrs within the cervar stad. Aso mc-hrs upon (1) is curative single dose. When the parameterium is arrovered the exposur should be increased a or 4.5 mm. In For extensions on the wagnal wall about the parties of certain the control of the control to the cervacial treatment indicated. Deep parameterial or parawagnal nordies should be treated by the implication of emanation points in cases of high bedominal resiste this implications.

should be effected through an bdominal messon

When the needles are used the treatment is given

under gas anesthesia. When needles are not used the patient is treated in the knee chest posture without the induction of anesthesia.

After the treatment examinations are made at atternals of two weeks and no further treatment in given for at least ten seeks unless there is obvious trouble outside of the areas treated. Retreatment in the heavily radiated areas if necessary must be much lighter. As a preliminary to operation, also to

ta thirds of the desage mentioned is given.

The primary results of the treatment discussed was very good. A primary clinical cure was obtained almost invariably except in the advanced inoperable cases.

The following conclusions are reached

The treatment of choice in early operable cases is operation with pre- and postoperature radiation. In late operable cases it is topical adum treatment and perhaps external radiation. In advanced cases topical radium treatment and the implantatin of bure points are indicated. The use of radium Inne nearly operable cases is thoroughly justifiable. Operation close is also justifiable.

ADOLFH HARTUNG, M D

GYNECOLOGY

UTERUS

Bretschneider: Observations on Mysma and Accident (Ueber Myon and Uniah) Zentralid f Greeck 922, xiv: 15

Sertoms and carantoms of the uterus ha e server been recognised as the results of accelent because in such cases the essential conditions and another because in such cases the essential conditions and appeared by Theim in his Handbook of Denessee Doe to Ac dent (viz single and considerable effect of force at the size of the subsequent tumor and the formation of the timor at a definite time determined on the bases of expresseon) are not follified. In a live as the base of the presence of a condition of the effect of the relationship between my ones of the property of t

On the other hand, anraher of cases—the surbor has observed much a case humsel—have been bus observed much a case humsel—have been not questionably demonstrated in which an accodent acted unifervabilty upon a sity on a stready present, cassing hermorrhage, hecrosist, gazgene pertionate, on in existion of the titeras. Therefore the question whether powerful force mystras anyons in observate the woman earning capacity must be answered affirmatively but it question as to whether an actual my subject as estimations depend affion as the result of such rivenum must be decoded on the basis of the findings. Minavas (C)

Bearing V Remarks an the Scope and Technique of Myomectomy Leach 19 s, cms 743

Myomectomy fulfills higher surgical ideal than hysteromyomectomy in that if preserves the potentiality of reproduction. The very small fibroids as well as the large must be resoured. Fibroids ith broad bases placed posternorly at or near the cervix often require difficult surgical procedures.

Malignant, necrotic, and supportative degenerations are contra indications t inyomectomy

Pedimentated and superficial tumors can be removed without disturbing at associated pregnancy but in cases of deep fibroids the pregnancy must be interrupted at the time of operation

A single interior tocasion is best Posteronic) placed fibroads are removed through the aterior cavity or through the wall unless they are pedia-related as superficial. Anterior incomes are more as orable because they are none accurable at post to interioral additionates. Silk software are employed saless the otherware are employed as the otherware are employed as a superficient in several contents.

All redundant tissus is removed in order not to leave the organ too large best the operation is finished. If hismorphage is troublesome all stems arteries may be temporarily clamped during the operation. R. E. Commu. M.D.

De Ott D. The Evalution of Hysteremyemectomy (L'evolution de l'hystermy onorteme). Grak et alette. prz. ri, 200

In 1844 De Ott of Petrograd reported the reshift of twenty case of supers signal ampatition of the formous therm with extrapertioned fattered the strong. The Ott is adopted to the strong the mortality was 4.9 per case Schroeder later simplified the treatment of the strong 1 to De Ott as adopted to the control of the strong 1 to De Ott as adopted to the control of the petropetric technique and assesses acress of such more classes were operated upon in this stander. There are obtains 1 a second series of 21 cases the mortality was only on piec cent. When the above most control of the strong the stron

tons performed up t o the mortality was a per cent. In Perceptra the mortality of abdominal operations for fibronic has fallen from more than a per cent in SS to about 7 per cent in SS to about 7 per cent in protect from about 3 per cent in 1850 to zero.

The figures about that the operation of hyperconjonce town a now satisfactory. Socious as due especially

Frank, R. T. Cancer in the Carrical Stump Metastass in the Vermillerin Appendix. Swi Gynec & Ohd., 92 XXV 334

to the perfection of earnest

The case reported was that of woman 47) seriold he had had supra agust hysterectomy for fibroids and fi e months later was treated with radrum for curemona of the cervical stump

One year after the b sterestomy the patient entered the loopital and shorth afterward devid oped symptoms of obstruction of the box sho peal measures were employed but death occurred one boar after the operation.

Autopay reveiled cancer of the cervix high lad not mended the peritonal cavity but is so the diversion aginal septum and the parametrism. Nemicross retropertional lymph glands contained me-

increase retroperational lympa grants continued tastates.

In the tip of the son adherent vermilorm appeadix was small man, inch proved t be identical in

morphology with the original turnor

Because of the danger of the development of cancer in the certus following supervaginal hysterectomy some surgeous believ: that a total hysterectomy should be done in all cases, but because of its higher mortality and the fact that it does not always pewent the recurrence of cancer the author regards is rootine use a nursile.

A search of the interature failed to reveal a case of metastatic excusoms of the appendix in which continuity or contiguity were not responsible for the metastass. I E BERGEOW M D

ADMERAL AND PERI-UTERINE CONDITIONS

Bell, W. B. Endometrions and Endometriotryoms of the Overy J. Old & Gyast Bril Ent. on XXX. 445

The author reports on his investigation of the socalled chocolate cysts of the overy and credits Sampson with the recognition of this very interesting pathologic and clinical condition

From Bell study of the subject it seems probable that all unstuped muscle fibers in relation to endometrial tissue in the overy are merely those which are normal to the overy but have undergone by explasas

Bell reports a specimen removed by supersymmatic panhyterictroupy in which the interns and tubes appeared normal but both ownres showed endometrial interaction. Sections were made (ront in ovarina ligaments on either side at the junction of the lagiment in the terms but no trace of endometrial inside was found. Consequently the concination of sines that the leason present were as in dependent ovarian endometrioms and an endometriment respectively. Such easies are not encommon and it is probable that before long many will be reported.

The article is illustrated with air figures showing the gross specimens and photomerographs of the sections from the overses — C. H. Davis, M. D.

De Bruyne, F. The Clinical Results of Overfan Grafting (Cestrobution à l'étode de la grafi chaque de tons extrepe) Gyak d'ésid. 9 %, vs. 16.

The author first describes on a more found in the

The author first checuses nine cases found in the interature in which an ovarian graft was extripated and examined histologically

Recently he has had a similar expenses in the case of woman of 5 years he had had a hystere closely for adnexal tumor. The grait was transplanted substationeously unto the abdominal will and extra extraordinate the substationeously unto the abdominal will and extraordinate the substationeously of the substation of human tenses which grain the substation of human tenses which proceed the all of cysts too pregular me structure to be shentified with normal corpus lateous or a true beoplasm. In the surbor opposite the substation of the substation of

Earlier research demonstrated that the results of ovarian grafts are more transplantery after subcutancous transplantation than after transplantation int the abdomen or peris. The author's clinical expericiple confirms this finding

De Bruyn has had arrly eight cases of subtotal hysterectomy with bilateral subango orangenetomy. In fifty-eight of these fragmental orangenitars from including the large of the parts of the subcutaneously on both aides. The majority of the grafts included parts of the corpus luteum, the cortical layer and the mediullary zone.

Up to a certain point the subcutaneous transplantation of oversan tissue, especially if the graft hypertropious and becomes congested (which occurs in about 40 per cent of the cases) will prevent the disturbances of a premature memopanise in 78 per cent of th hypertrophy cases

A cyatic formation results in 70 per cent of the cases in which the cortical layer of the ovary is grafted and in only so per cent of the cases in which the cortical latenum is grafted.

Cystic formations are more frequent when the overy from which the transplanted fragment is taken show normal histology

In women more than 40 years old the grafts never become hypertrophed

Although in the author' case he did not find my clear signs of folloular maturation, the clinical find ings indicated that the transplanted follocles played the principal role in the phenomena observed.

Boriand, W. A. N. A Clinical and Embryological Report of an Estremely Early Tubal Pregnancy Together with a Study of Decidual Reaction, Intra Uterine and Ectopic. Am J Oksi & Grand.

IL A BREWAR

The subject of ectopic decidual excision is of too recent development and the clinical material is still too beneity to warrant any very definite conclusions. Outstandige covered the matter satisfactorily when be stated that ectopic decidua appears, on the whole,

t be extremely fifful in occurrence, circumstances high may be asen bed to virushions in the intensity of action of the ovarian hormone, different degrees of responsiveness on the part of the abpentioneal connective tissue cells or the presence or absence of suitable local stimuli.

According to Tunsug, the superficial location of the ectorse patients seems to induct that the end products of the normal decidnal reaction do not reach these points through the blood or lymph channels, but pass directly through the limiting of the tubes and out through the findinated extremities, causing decidnal reaction in the critical seasons pelve persiscent through turnistion. This theory

ould seem to offer satisfactory explanation of the comparatively great frequency of the patches in the peritonium of the Dougles cold do say, the posterior surface of the uterus, and the rectal walls areas toward which the irritating material would naturally drain E. L. Conarti, M.D.

EXTERNAL GENITALIA

Smith, R. R. Prolapse of the Fennale Unrthra and

Eversion of the External Urethral Orifice, Am-1 Obs. & Gymc 9 rv 305

Operations for the rehel of prolapse of the female

uredux will vary somewhat according to the findings and whether or not there are other conditions: be dealt with at the same time. A maple seression may be corrected best by remo ung the protreding mucosa and narrowing the nection by thrapplate of mucosa and narrowing the nection by thrapplate of the nection of the supraint demakation part devia the ontice and including part of its circumference. This operation is not to be bloody and considerable cars in necessity in make the distribution of the nection of the

prevent separation of the edges and granulation

wound When considerable mucosa is removed and circular mossion of the urethra is necessary, the strucker remuting the mucosa to the edges of the orange abould be rather deep, catching up fair amount of mucosa, and should not be tied (or lightly The edges are apt to separate, if eith

eternation is long continued. Prohipse of the vaginal wall and urefirs as contexted best by removing the redundant mesons by transplant necessors, this has across the vagina of the probability of the pro

OBSTETRICS

PREGNANCY AND ITS COMPLICATIONS

Handern, L. Heus During Pregnancy (Heus des Schwagerickaft) Zestrallé f Gystek 9 al 1 1051

Intestmal obstruction is a dangerous, but fortunately a rather infrequent complexation of pregting, and the poetperum. Unstill, the caree is condition such as invagination or vol alos. Instances in thick the pregnant, non-incarcerated uterui alone it the cause in every rare.

Il ndom report the case of a 4 year-old is para in the nulls month of pregiance who had had constipation for t entry years which became more promounced during sets pregiance. Three days before a disassess to it hospital she inferred an excitation followed by complete retention of faces and wrine. At the time of disasses the absolute movements were suble box the unbubletis. Dull area was present hand is because and the symbolic area was present hand is because when the public and the best towards were madeble. Excessa were unseed.

cessual.

Operation revealed marked drit ton of the small and large intertines. The obstruction is accused by the prept it terns which clamped off the colon bet een the fierure and rectum. Ver astreas section done and non-ribble child deli ered which delides and non-ribble child deli ered which delides the tent minutes. The rattent recovered.

The whor grees th Fleuchhuer who, m it cares of presure of the pregnant terms presupposes a disturbance of modulity of the testine. In Handom's case the ensuing intestinal cit my as markedly merased by a detective error high rendered the distended, weakened gut un ble longer t

evertosse the pres ur of the teru

If enemas re not successful the belomen bould

be opened. Againd a sarran section about not be increased before them done as others we the mantranged before them done as others we the manerated only of meeting meeting of the term should be implied only of it is found it be turned only of its property of the short we will be observation or dosure of the abdomatic of the short of the s

operation. It can of intertinal obstruction or wring during the tith results of prepriate high operated group) Inderien, the obstruction was found it the large of the first The figure at itself at an effect of the first the fi

intestine resected the long injured coil, and surtured the ends of the gut into the abdominal wound Death occurred after a few hours. In the de clop ment of the volvalus, the length of the flexure and the leases of the mesosymoid were contributory factors in add toor t. the pregnancy.

Romanus (Z)

Sciomons, B. The Results of the Tre tment of Eclampels by the Dublin Method J Obd & Green Brit Emb. 9 KM, 4 6

Special points in the treatment are

Starvation I some cases nothing but water is given for several days. If then there is no improvement, ordanean section is performed.

Gastric layage This is continued until the ter returns clear. Two ounces of magness in sall phale solution ar then left in the stomach

3 Bonel is age. This is p. en with the patient on her left side and with the tube inserted. So into the bonel. Sodium bearboarte dr. t. th pint i used until the bonels are deur and then pt of the soli toon sleft in the bonel.

the sol tion is left in the bowel
4. Morphine. Recentl this has been omitted
5. The jecti of sodium becarbonat inder

the breasts

6 Close observation t prevent drowning or other moderate.

Of the women whose cases are existed, 67 g per cent were primages also. When both the mothers and child recovered the erage number of ourself was 6,5 g. When the mother shose recovered t was 6.5 when the child shore recovered t was 6.5 m of 50 m of when neither recovered the 30 pc of 4 when neither recovered as 30 pc of 4 when neither recovered as 30 pc pc of 50 pc of 5

The incidence of the condition was greatest in J uary Lebruary March and September The crage mort lity as 10 per cent

R L CHINNE M D

LABOR AND ITS COMPLICATIONS

Pickett 4 N Immediat Repair of Lacrettions Versus Delay Acetack W J 9 25, 100

The thor believes that repair of hecrations doe there is a bow within thirty-six bows after of heery is better than termediate repair 6 to ten day later of lat repair months or jear later. Against the intermediat method of limit are the ill effects of the serv. I true experience by the patient when it was to be found to another operation as soon, the later to robonit to another operation as soon, the later to robonit to another operation as the service of the later to the later to the later to the under the attendants and the true to the mother the attendants and the Logistal.

Davis, E. P. The Uterus After Conservan Section.

Am J Old & Gymer p i 335

An important problem associated with cenarean section is whether the operation should be terminat ed by sterilisation or hether the patient has a fair prospect, if her pelvis is sufficiently large of being successful in spontaneous labor in subsequent presmancies. In addition to this problem, birth control presents used in another phase. The obstatrician is often called upon to treat multipage who are near the final limit of normal child bearing. Many of them are a other in straightened circumstances who have as many children as they can properly rear Many have reached the stage of physical decline after which presumer becomes progressively more dangerous Under these conditions sterilization fol lowing canarean delivery mucht be fustifiable. The condition of the uterus in such omen is an important factor in deciding these questions. When sterili ration a not effected and the patient elects possible future presistney the method of suturns the aterus as of the remount importance

An expectangly to examine the classical canarian section sear in the uterus was afforded the author by neveral cases in which hysterectorin was performed after second delivery All of these omen were operated upon by the same method, viz turnuar out of the uterus from the bdominal cavity in casion through the expulsive segment, emptying of the uterus and, in suspected cases, packing of the cavity. The terms muscle as closed at h buried all, sutures, and the pentoneal covering of the uterus with caterut. In some of these cases had septic infection developed after the first operation In those which were allowed to remers in the bosoital sufficiently long ery fair degree of convalencence had been obtained. The patient were white omen of the laboring class who cared for their children and did their own however ork.

In one case the terms muscle supraired but the scar remained firm and as stronger than the uterine muscle. In the second case the stress had under goes such fatty degeneration that extremire inpute occurred as soon as khot began. This petical was not given an opportunity t recover from ker preous section and was demost the benefit of sensital

care during the last menth of her pregnancy.
All of these multiparts above the degreerative processes which nevertably occur as multiparts that proper cities during pregnancy and labor namely altronous uters and stropply of the mescular tassest in patients whe sets tonce at the time of the operation shores and strophy were present and of extending the set of the operation shores and strophy were present and of extending the set of the s

unusual but animal illustrates of the pathology of tonerms.

The author believes that this class of cases strengthens the arguments for both control by electric hystrosciony at term. These owner had borne children with difficulty and had dose their st most to rear these children at the expense of their own health Under such commissace Dava helarese electri. hysterectomy is postifiable and that more practical application of both costrol could be suggested. S. L. Cosenzi, M.D.

PUREPERIUM AND ITS COMPLICATIONS

Lysich F W Retroversions of the Uterus Folion hat Delivery Am J Obst & Gyas: 1911, iv jo

Twive leaded and thirty some who were delivered at term pt looped wards or examine delivered at term pt looped wards or examine down notice the state of a manning of twelv mostle. There were a known pelvic inflammations in the sense of ones known pelvic inflammations in the sense of ones known pelvic inflammations in the sense of ones known pelvic inflammation by wones were delivered at term. This study as therefore the sense of the per cent of the total manifest of wones delivered t term. The following conclusions are presented.

Retrodisplacements were noted in 4 per cent of 30 women kept under observation for four to twel 6 months after delivery

Thirty-two per cent of the 305 omen with retroposition came back because of pervis symptoms. Ten and a half per cent of 7 5 controls with uprapht other complained of shight as anytoms.

3. Nineteen and six tenths per cent of 186 private patients persented attentie retripposition in contrast to 44 B per cent of 1,044 chain patients. Therefore hard ork may be an important etaological factor of retroducilectment.

4. Replacement of the aterus and possary support gat anatomical correction in 7s per out of the case. Symptomatic cars and anatomical correction exobtained by identical procedures in 68 per cent of the 6 cases a 4th symptoms.

5 Subsequent preparations occurred in 5 percent of the onem be did not have displacements, in per-cent of the onem who had been treated for retroposation, and in 5 per-cent of the oness whose retroposation had not been corrected.

6 % one type of responses has been sume currely necessarial Tollowing 55 operations there ere to recurrences both made necessary a serround inguines fastions upon the uterine feather (of Nebster thurty one Coffey arrises stypes). There were four recurrences following to early right Kalls, Neel suparaments with shortening of the upper part of the utersoneral hymmetic.

7 The importance of early correction of retreposition following labor is clearly syndext E. L. Corveill, M.D.

REVRORN

Muraro, D. and Eurtin, R. S. The Diagnosis and Treatment of Introcranial Humorrhoge in the Newborn. A Report of Fourteen Treated Cases. Am J Dir Chell. 325, 227. 72

The authors go comprehensh review of the interacture on harmorthage in the newborn and report

fourteen cases they have treated. From their study they come t the following conclusions:

Cases of intracranual hemorrhage in the newborn may be classified etologically into three groups () the transmatic group () the asphysia

group, (3) the fixtual disease group

The duemons of intractanual hamorrhase in

the newborn should be based on (1) the history

and physical examination (s) the measurement of infracranil pressure by spinal manometer (s) the congulation and bleeding times

3 The treatment of intracramal harmorrhage in th newborn depends on () the successful today and classification of the case () the recognition of

the intracranial pressure

4. The treatment of utracranal harmorrhage due to hemorrhage choses contrats of the administration of normal whole blood subcutaneously until the blerding and coagulation times have returned to normal, followed by measures for relieving the intracranal hypertension.

5 The treatment of traumatic cases counsis of the prompt elevation of depressed fractures and the relief of intracramal hypertension by desimage by lambar or ventricular puncture as indicated, or typical subtemporal decomprisation.

6 The treatment of suphyras cases country of relieving the intracranual hypertensio by lum-

har or ventricular puncture as indicated, or by the performance of a typical subtemporal decomprestion

7 Cerebral localization of pathology in the new born is rarely possible. Therefore corrective surgical measures are impossible.

8 The pathology diagnosis and treatment of Little disease should be studied more extensively from the point of view of intracranial pressure C. H. Dayn, M.D.

MISCRIJANKOUS

- Stimson, C. M. The Influence of the Piacents on the Mammary Gland. Am J. Old & Gync. 9.3, vi., 4.3
- It would appear that during pregnancy there is something in the material blood which inhibits isometime, and that lactation occurs only when this substance is dimmated. In this case cried identation did not occur during the presence of it tached plas cause of abortion milk does not appear un be because while placential times remains attrached in the uterus while placental times remains attrached in the uterus places. These facts therefore suggest that the placent is
- th inhibitor of the mammary gland, holding it a check until is function is necessary

F L CORVILL, M D

GENITO-URINARY SURGERY

ADDRESAL KIDNEY AND DRESKE

Rovaind T The Surgical Treatment of Nephritis and Aseptic Nephrosis (Sor le tratement chaptrocal des néphrotes et néphroses aséptiques) dista chiner Scand 9 1 56

In 901 Rowang reported fiv cases of nephritis treated by decapsulation of the lidnes or as he termed it nephrolysis. The operation as in dicated by pain or hierasturas. In Rovaing's open son the effect of the nephrolysis as due principally to relaxation of the strangulated kidney. If he heres the operation as indicated chiefly in cases in which permerbritic processes cause pain and have orthage and obstruct the regal circulation. In 100 it had not occurred to Rovanar that decame lation might cur severe nephritis without distention of the capsule and he expressed sceptionsm when Edebohl proposed at for all types of chronic medical probritts. Roysing now believes it is indicated whenever medical treatment has no appreciable results. If has performed it in our entr seven cases thirty seven those of men and forty those of omen A lumbat increase is made, the crossle is not alone the convex border and each half is turned back toward the hilum. The expanle is extirnated only if it a markedly abnormal. The cases treated are classefied into four groups

Group I tersitual nephritis or perinephritis in tenses of puns and hemiturn but inhost all humania hericen the cross. T entre six cases of this type were cured by nephroly as. In Rowsing coanson these are cross of time or take toxic effects.

on the theres

Group Interstital nethrita associated in homomora, para and hermatican, notifien odular. There are thirty-to cases of this 1 pe elected of them the devanced renal trophy. Two of the pairwate deed thortly after the operation 1 dealer (emporary, improvement nine were group state) therefore the destruction of the dealer devanced, and numerous possered to be entired current cool results are obstanced even in some of the cases with a stoughed renal trophy although the deaths and possere aremits were also in this group.

Group 1 Diffuse parenchy nations aephorize (chronic nephrons). In this group there were neght cases Aephrolyse sentied in cure in four cases and temporary improvement in 1 t others and temporary improvement in 1 t others which were the control of the control of the unisteral in one aephrectomy as done later and was followed by complet recovery.

Group 4 Glomerulosephritis In its of the three cases of this type the roadition as umlateral. These two cases were cured by nephrolysis but in the third the operation had no effect.

N A BEETLA

Darmall, W. D. Mallement Psychlores of the Edney Surg Green & Obst. 92 vo. 493

The case reported in this article is the fifty seventh recorded in the Interactor. Two as many makes are affected as funder and the condition any makes are affected as funder and the condition any morar can; per The tostop in minnon bet in furnamentor and gione has been held responsible The tensor may be small, sociated but his provider or single barge confidence mass filing the resulting the conditions of the condition of the

The symptones wary according t the sace of the good I Henricative as the most remmon spin. The arise in intensity and smally is intermetical. Fast more or less inconstant and reducte does the foun. The symptoms may persust for years it possible that some of the cuse diagnosed as essential hermatima may be of this type. The conclusionable being specied in the presence of aegits roomigenograms, toke along the severe rhimmshelf or absent formets of the suspected badleay and appropriate appellows in the university of the presence of a private properties of the presence of

The treatment is all cases in extripation of the affected kidney ith as much of the matter as possible. When there is bladder invol ement succeen filterwitten is pickened L. Krown. M.D.

BLADDER, URETHEA, AND PENIS

Figurnoff, k. M. The Pathelogy and Trestment of Fibromyometa of the (Friency Bleefer (Pathelogs and Therapes der Fibromy one der Harsblaw) Assy Chr. Arch. q. 14

This detailed study to based on the following comfacts was diagnosed chancilly by generologic and treated surgically by Federoff who performed a transperitoneal operation. Seven years president the patient main of your cut, but had hermatural for several celes. Some that how she had been

ell until as mostlin go hen another attackcourted Marcambon was paniel and frequent and emptyring of the biddler. as impossible tailen the partant stood partially pregift with the body heat slightly backward. The terms could be demantated from figure algorithm provided tumor on the state. The growth thunned the anterior ultil of the agons, and cannelle if a project forward.

Cystoscopic examination showed that the normal miscous membrane was pasked forward: the right posterior quadrant is tumor the size of walnut.

The right wreteral opening was higher than normal and gaped open but contracted t the escape of The capacity of the bladder was 320 cm

At operation t was found that the neoplasm in olved almost half of the bladder. Where th tumor projected into the lumen the esical wall was resected. The rest of the gro th was removed by morcellation with the exception of the tumor nodule encloung the urcter. A drainage tube was then inserted and the bladder sutured around t

After the operation the patient as kept in the bidominal position for the weeks. A self-retaining catheter was then inserted and the patient changed to the dorsel position. The abdominal fatule was closed at the end of four days. Whe discharged from the hospital the patient was free from symptoms and the capacity of the bladder 230 ccm Cystoscopic examination two months later showed a linear scar which was stellate below and stended opward into diverticulum. The right ureteral opening as aidened and round, but active con tractions could be observed. The left onfice was widened and draw toward the right as far as the midline

Histologic examination showed the tumor t be an intensinal fibrary one of diffuse growth buch had undergone mucoid degeneration it the center

and was w thout an endothelial liming The other has found forty in myomatous to mors of the bladder described in the literature since \$71 only three were interstitual fibromyomata

Kuspetalisch cane is not except by in that the fibromyoms gres on the permbery and attained size equal to that of the terms t the end of presmancy and cuphtofolym

na Outra Sacur (Z)

GENERAL ORGANS Herbst, R II and Thompson, A Carcinoma of the Prostat / for 11 for 0 funs 654

The authors remea the literatur n prostatur cancer and their on aperience with the condition They found that I least one in e ery four tumors of the prostat as malignant nd in one third of these cases there as evidenc of bone metastases A rather small a mber of the patients seek treat ment submently early to blain permanent relief Those the cancer do not develop urman, 3 mp toms until late Early diagnosis is part cularly argent in exocer of the prostat because t is silent dresse at mptomatically until it is far ad anced

I am along the set tic nerv is the one symptom as-on ted with earl mahgnancy hich bould terrict it tion t the prostat in men of adasced ge Palac and sacral poin and poin back are usually equificant of extensiv local is of ement but may be caused in some cases by glandular or bone metastases. The arguificance of increased resistance which a often found the mirriescular space just above the prostat gland must not be forgotten

This utilitration produces an elevation of the trigone, termed the subtrigonal plateau when seen on cystoscopic commation. It can be felt more distinctly if a cystoscope , introduced into the bladder and the beal turned downward toward the trisone Obliteration of the interlobular sulcus is

also characteristic rectal finding in maheno ci From the standpoint of treatment cancer of the

prostate is of three pathologic types

A searthous type, which usually begins in the posterior lobe in the form of small, flat, or nodular areas The process develops and spreads behind the urmary tract rather than into t Therefore urmary

symptoms do not develop until late
2 A combination of Type and benign hyper trophy of the upper portion of the prost te. This is difficult t differentiat from simple hypertrophy the malignant area often being discovered only t corration

form of tumor in which th 3 A less comm entire gland is in olved by adenocarmnoma. These tumors are as a rule smooth and 3 mmetrical but hurder than the adenoma. Metastases do not occur as frequently as in Types 1 and

The thors have obtained better results : cases of Types and I than in those of Type I because the early development of urmary amptoms caused the patients to present themsel as for treatment before metastates had developed

Herbst and Thompson polied treatment through the opened bladder because t gave easy access to the tumor especially the subtrigonal area, and relieved urmary retention

I addition to facilitating the introduction of radium, a suprapubic t tomy protects the upper urnary tract and does much t make the nationt comfortable during the ceks or months that treat ment is carried on

Some of the best englis were obtained in cases in high it was possible t enurieste an adenomatous middle lobe fit t be of radium into the cavity and insert several peedles contaming radium at the malignant part of the remaining shell. Such radium treatment may be epeated if the bladder is kept open, or sub-equent pplications may be made by passing int the urethra staff carrying t be introducing long needles through the perineum or both

Most observers agree on the sine of the roentgen ray in conjunction with rad um therapy

LOUIS GROW, M D

Credl, A. B. A New Technique for Performing Perincal Prostatectomy J Im U 1 lyeur 66

Cecil has been con inced for some time that if long operation could be altered to as a rid it of technical difficulties, a would lend teelf a more general use. He therefore turned his attention toward the development of procedure which, while less difficult technically would biolutely in sure the integrity of the muscles of urinary control and at the same time would protect the rectum from infur-

The result as the devising of a tractor which can be easily introduced through the entire length of the methra and, when opened in the bladder is efficie t in bring g the province into the wound, thus preventing all rosulability of inlurs to the external

sphiacter muscle and any unnecessary scar formation in the region of this muscle

The uncertainty in dividing the rections thrains muckly was net by changing the sharl of the handle of You g bidd not special retractors so the whole there are held firmly in position the operator is able to place a glossed finger in the rection. I the apex of the prostate and thus carry out the dissection under the some of touch rather than by purely an tornical landows:

In Certs technique the patient is placed on the table in the exagenated behaviory position and the bladder partially filled with fluid to permit the easy opening of the tractor. The current tracts is then passed into the bladder and the 3-shaped function made in the performer. The limbs of the current V shaped usesson rates of goar far back and the licenson as rained through the subectaneous masses rather back.

and moveds shed the table retrieved is introduced.

With a pain of them blores the timers are prefixed up but back of the bulb and the central readon duried.

This back of the bulb and the central readon duried to the control of the bulb and the bulb of the

not be injured, and in this manner the fiber of the recto-urethrahs muscle are do sded far back rather toward the rectal—all than tow rd the region of the

external sphincter
The handles and shaft of the tractor are then
brought ton, of the operator, as bi-side red they
brought ton, of the operator, as bi-side red they
to the tractor may be easily probable of the tractor
to tractor may be easily probable of the tractor
the thumb screw the bladder end of the tractor
throw at right angles to the shaft. Then b lifting
on the tractor and purshing t away, the per of the
protate is brought to te far up in the seasof. The
fibers of the leviator are inside are pur-bet lands and
Demonvallur: a stropped back along the fascia of
Demonvallur: a stropped back along the fascia of

Demonvation point the mether has not been opened. The root this point the mether of Young reade at these has been found preferable to the three methers of the three has been found preferable to the three methods of a true bedden of the three Adomnation masses are freed by a blunt dissector and removed through each theral extra place to the masses from the lateral car use and say understand lobes encous tered in a leven removed absentional lobe encous tered in a leven removed lateral carrily and the edges of the protestic methra are packed up in it. Allison foretree

The tractor as then removed and as discut cases to a sometimes found as "salle" t attribute the straight tractor through this opening. A langer is passed in through the prostice circles and the neck of the bladder pulpated. If an inter-secal lobe is excountered, it is treated through this opening. If the neck of the bladder is found rectirated, it is the prostice of the prostice

divided. After the removal of all obstructing tiener, single w drainings tube is natroduced through the lateral curvity as the bladder and packed about with critical gause's control harmorthage.

Lorry Grow, M D

SURGERY OF THE EYE AND EAR

EYE

Wiedermann, H. Injuries of the Viscoal Tracts of the Brain (Die Verietungen der Schbeinen des Leibne) Zische f. erzit est Verzertz pre 9 1.437

More frequent than direct impries of the optice perse are ladrect indirect due to fracture or fastures of bone (buffy other cranial nerves are also in circle (that their fourth first, fifth, and sufficiently the first of the central serves are to a thick the lesson lies distalt to the creater of the central seed into the optic nerve of the central seed into the optic nerve consistent of the central seed into the optic nerve spear are evident immediately Art the channel lesson of the cross-fibers produces betterporal hemispean accesses a terres an unuary behind (central) the cross-

ingiciness as called hismony movalemisanopsia. A loss of both the left halves of the visual field occurs ith natury of the tract of the primary small center, the optic radiation, and the right ciniem. As the pepallery fiber branch off at the primary visual centers, the pepallery praction is normal in cases of central lesson, but when the lesson is notated furnition was of the beautiful produced to the control of the primary control in the control of the primary control of the produced to the control of the primary control

With destruction of both the visual spheres, ore trad bludness, via bludness in he a mechanged populary reaction, occurs. Mental bludness, conducin the whole the object is perceived but not recognised, is due to deable. pury of the come and of the occupial tobbe or its meddling; layer and is an optic agnosis. Alexas is mosher type of the same condition. Their occursion which considered the promised of the second of the second of the same with conjugated paralises of the eye muscles following detirection of the singular syrus.

TERM (

Riffication, O. The Present-Day Status of Squint Surgery. A New Operative Techniqu. J. 4m. J. Arr. 9. Ltn. 4.7.

On the basis of seventy five cases operated upon during the past two years Wilkinson draws the following conclusions

It is necessary t operate on children sooner than has been our practice in order that may favor himocular vision at age when himocular wind may be acquired

If are able t straighten any case of squart at any aga subboat doing "tenotomy or in any n y cutting or interfering with the function of the interaal rector. A tenotomy of y grade is contratodicated in squart in young children 1 I cases of the

I cases of deviation of 4 degrees or less the softwent t advises the aternal rectus 1 the

aquanting ey only. In cases of higher degrees of deviation it is advisable to advance the externa rector muscles of both eyes.

rectus muscles of both 6:08

4. In young subjects with low degrees of devia
tion about 3 mm of shortening is required to each
degrees of deviation, e in case of squant of is
degrees in a child under o years of age about 0 mm
of shortening of the external rectus would be increasay 1 secure an accurate in derimagent effect. If

case of from so to 33 degrees of deviation each of mm all correct degree of deviation. In older about next, 5 mm of shortening will approximately core to degree of deviation. This holds good except in the very low degrees up t is or 14. The lower degrees require the ratio of 30 mm of shortening to degrees of deviation. In a few cases the author has shortened the enternal retries 5 degrees. He had that the ratio decreases for example, that 15 mm will correct from 30 to 35 degrees. He had that the ratio decreases for example, that 15 mm will correct from 30 to 35 degrees. He had that the ratio decreases for example, that 15 mm will correct from 30 to 35 degrees. He are the subset of the side of

I case with high degrees of deviation say so de grees, o mm advancement of each externa rectus is necessary. In cases of deviation of 9 degrees or more, the ratio increase is 3 mm of advancement of each "ternal rectus with the wearin of the larce ten days will correct as much as 50 to 3 degrees of deviation abereas mm of advancement on the year of the properties of the properties of the correction is somewhat increases.

5 Over-correction is necessary to secure a permanent result. The cy should deviate about 8 to 1 degrees after the stitches are out and the brace habeen removed. This is an advantage as it ands the timeson faculty to secure bisocular rusion as the previously crossed eye is assuming its permanent position.

6 The use of the caliper or some default encausing denote is essential for accurate work. The method of systeming through the stump sweets the dangerous scient a strine as secure a firm anchoe age, while the plaque of the suture in the well dissected muscle makes possible more strict measurement of the amount of abortemap produced The importance of this we redeed as it enables to it operate on children under either amenthesis with the asset considerers with which operate on admit under local anershears, and to operate before muscle local great the habits are formed before announcil changes in the made and binderies to the squarting yet develop and before the possibility of inson truning a lost.

Jum P Fin Greate, M D

Wood D. J. Intra-Ocular Cysticereus Bru J. Opici ore vt. 450

Wood has seen as cases of intro coalar of siters cause to which he discusses in this paper. In one of the two cases daruned there was some doubt 1 to come the two cases daruned there was some doubt 1 to the diagnoss. The other was in to all drugged to was also farmer and who came to Wood because of pain as the fet good of there weeks duration high had been much more severe for four day. On the fower outer part of the time was a very default cystic body. Into the center projecting into the good of the control of the control of the day of the control of the control of the day of the control of the con

Under an anasthetic Wood irred to remon the syst at this bot of this, but at the first touch of the forceps it reprised mits the anterior chamber. First men's were removed but the threads were elastic and red of the rist he phosphers are fround in the analysis of the rist has phosphers are from in the collection of the rist has proposed as the result. There is a monoclate redief from the pain, but when the patient left the hospital the people was largely occlosed by It jumb.

Troma D Arres M D

Weed, D J Oury of Lond Duration. Bril J Oblik at VLAS

The patient, noman aged so years, consulted Wood for the removal of whit mark from her left eye. On cannal magnetism thes much had the appear ance of a round arbula with yellow opacity in its lower part. The patient stated that it had been present ever since abe had measles trainly years per

cond). Cereful erumination revealed a round every the double watch giase which continued some thick possible to the property of the control of the property of the property of the property of the charge The cruzity had clearly defined cereful marry and extended from the corneal samps at the most third of the pupil. Thee y was perfectly espect, there had never been say pain, and the patient was as re that say change had occurred. The carrier was the property of the country of the corner, and wasten was 40 feet.

Wood mened the cavity with dramson needle and removed the pus by irregation. The ey then looked nearly normal. While the orthas of the caty remained charty visible on careful majection. I was no longer compressions.

THOMAS D ALLEY, M.D.

Huessler B. T and Huessler F R. The Early Development of the Carousi Tubercle a Study in Slit-Lamp Microscopy 1sch Opini 9 k

Then paper reports a stud of the development of experimental tuberculous of the cornes in rabbits. Three strains of bacille ere used in a filtern vir ulent ad one not irulent. For comparison the authors isoculated another group of rabbits with solution of staphy lococcus aureus and in a third group injected mercuric sulphide.

The we of the left lamp and successive nade. It possible to beserve much satter changes than these recorded by other turnel satter changes than these recorded by other turnel satter than the first changes in rabbits upsected with tuberte that is speared from three to eleves days after the effection. No explanation can be offered for the days of some that four date except that it must have been due to these records and the control of the

The first change observed was a cry (a) it spectors of the conjugatival vessels at the lumbs in the lumb rabbits a pronounced acceleration of this interestation at the humbers as always noted at it same time. Not only or the casels dilated but the blood first of through them in much greater rapidity. In all the white rabbits monitared interests of the range breeded or accompanied the lumbers of the range breeded or accompanied the lumbs of the range breeded or accompanied the lumbs of the range of the lumbs of the range of the proposed of the creditation at the known.

Cellular deposits on Descense's membrane were easily seen seen varieties culture was used Asrule these deposits were found on the most deposit art part of the corner. Those noticed on the less were quite arreplarly destributed, but most memories as the periphery. The present changes were found in the cases in which beavy centrols on was used for the

DESCRIPTION The formation of vessels was perhaps the most characteristic of the lesions seen in tuberculous of the cornea. The earliest cosels ere als 38 observed at the imbus above, burever the corneal rejection was made. These vessels usually attained greater length then those coming in from below or the sides and eventually extended into the openty t the sate of injection I the most advanced stages the entire cornes was sometimes avenlarized. The carbest vascular shoots were seen two or three days after the first signs of resction. They developed as short strands coming off of the superficial conjuncts val casels at the lambus and lay unperficually on the comes throughout their course. After its, or three day of growth they met and formed capallary loops through which an exceedingly active circulation as mamtained As the essels became larger they amurand bream ake growth and increased in width as well as length. They grew much more estadly aben a virulent colling as used. When bealing began, the circulation gradually became slower and the essel decreased in size I the anthers experience the proximal loops sever compictely deseppeared, though they have been grossly mysable When such an eye as respected or otherwise trutated the blood flow through these capillanes as increased and they could again be seen 1th the unasted ey as frange of aca by formed crech. THOMAS D ALLEY M.D.

Inaries, J. W. Neuropathic Keratitis the Result
of Focal infection. 4 or J. Opinis 92 703

The author gives his reasons for considering leadinto keratitis a terminal nerve leason and reports a case which reasted all of the usual methods of treatment but responded in two or three days to palliative treatment for suppurate of ethnosidus.

June P Friz Graud, M D

Lent, E. J. and Lyon, M. B. Embryonic Fibroviscular Sheath of th. Crystallin I ems. 4m J. Opick 9 706

The authors review the literature, report in interesting case and discuss the differential diagnoiss of embryonic fibroviascular sheath of the crytellina lens. This condition may be mistaken for phoma, but as ghome grow rapidly careful measurement over short period will determine the diagno-

Ghoma is inhic with the tiked aperture if seen early but a fibroviscular heath equires the use of plus to be plus to be used to the ery minut essels connected as he to

Justs P FreeFrand M D

McCabe, F. J. Glaucom. Its Ethology and Treat ment. Rivel Island V. J. 9, 301

McCabe briefly review amous theories regarding the came of plancoma od the results bearied by operative and non-operative treatment. He recommends combining the team thools, considering each case individually, studying the condition carefully and regulating the patient's liabits and diet. For glaucoma implex with little or no increase in tension and only slow change in the fields of vision he believes conservative treatment is best.

T D ALLEY, M D

EAR

Eitner E. The Correction of Prominent Late (An legen und Verkleinern batchender Ohrmuscheln)

Hel Lin 19 2 xvm 7

Previous t the operation the ear is brought to the desired position and the most extreme line of contact between its posterior surface and the skull is marked If the ear is drawn harply downward, the line of demarcation appears as an ellipse the long diameter of which is formed by the fild of reflection The skin increson is then made through the transerse diameter and the skin and penchondrium are reflected up to the mark. The cartilage is divided in the same direction and a sickle shaped piece removed in a direction ertical t the incressor downward and upward. If it is desired merely to fasten the ear down, the strip need be only a few millimeters wide, but if a eduction in the size of the ear is also desired, the trip must be correspondingly wider After the suturing of the cartilage and the penchondrum the skin is exceed to the line of demarcation and the ear fixed in the desired position by three or four sutures

SURGERY OF THE NOSE THROAT AND MOUTH

HOSE

Dean, W. A Case of Supportative Ethinoiditis Complicated by Orbital Cellulitis and Acute Supportative Doctyocyelida. Acutery M. J. 6.1 S. 610.

In the others case there was a kintery of must clarity for many years obstruction of the sami lacknysad doct for seven years, and purches the charge from the sove for the month. The day before the patient seven by Dena, the dascharge copped and it go because often short. At the time of examination the puls has meters the tenper time depended and the face worker. The of the correct of the ten said that myer portion of the correct soil is even said that myer portion of the correct soil is even said that myer portion. The model of the correct of the ten that ing the now no per round be obtained. The modelle terbast was protycoil.

Several locasous are made to the bil. The tacky mail and depretty plate of the ethnoed are found it be necrotic. Here we of polypool depretting to the terror relational cells are constructed awa. A large drain was reserved through its associative exponential to the continued to reas from the operation between the continued to reas from the operation. The continued to reas from the operation of the continued to reas from the operation of the continued to reas from the operation. The action which was sometic behalf praintably. The astrong which was found it be infected, was operated upon and treated.

MOUTH

McArthur I L. Atypical Operations on the Jaw and Mouth for Malignant Grewths J Am M A. 9 x lrus, 1434

(det ! The patient was mun 40 years of age with business of paterbara and consequent removal of the first and second menors followed by curemon of the unbealed gum and ah colar process with slow recessor both direction Learnin tion showed no savescon of the antrum or orbit. The areal skin race sion ha g been made the t superior maxille were do kied from each other by an electric saw () at the lase of the first left rection through the pulatel portion mestally () t the superior maxill and maltr function ad (3) at the nasal orbit along th entire length of the infra orbital margin. The in ferror orbital plate and the superior manda were left ratect. The function and appearance of the eye re mained nehanged \ cervical gloads erresident nd none has yet been excreed

Care 2. The case as that of man with recent small growth according the gura, the alreadar proccest, and the j w at the former sets of to lower modura, and a default pulpable gland mamericately

beneath the right total. The microscope showed carcinoma. At operation the incision is made downward from the angle of the mouth t beneath the ja currents back past the angle and the flap as detached from the ja and retracted apward The lectric in was used to excise a rectangular section of the ramus, including the all colar process sufficient amou t of dense churnated bone was left t form a bridge s cm to each diameter t main tas the external contour. The fragment removed measured 5 cm. Surfees days later primers games had occurred and the increson as almost in mile The mood ed gland was removed thout tearing its capsule. The macroscope aboved it t be a typical carcinomatous gland. There was no recurrence or facial deformity four and one half years later. The patient deed the result of fall

Care 3. The patient as man 44 years old who had a letton streamform the decayed root of the second right lower molar. Buth failed a beal after the removal of both molars, corettage, and the was of custica. Thus you had been present for time rets but was not large. Yo glands, one evident in the neck. The more core down of customs.

At operation the outer aspect of the lower ja was exposed by increase beginning on the lower hp at the angle of the month curving dow and along the n tural fold of the cheek, and cutting all ber the mucos t and below the Jaw. The skin of the cheek was then dra n pseudosal the tussoes cree or beck.

ind following the aris don to the bone. Beginning the large of the mouth the micross as then sectioned to it consert as much of the normal membrane as possible. The transion as then made through the healthy soft parts and personateum it if our industry from the growth. I perpendict a tips and a romovering long as any or

what an ingo and a connecting long as only needed at a distance from the free all colar margin to road beginning infiltration and t leave a strong burnated bony ridge to prevent deformity.

(ene a This was the case of 4) ear-old garl with tumor of the mental prominence luck deformed the chin into a round man and looseped the incisors of the lower pa. The pathologic report ment as grint cell surrouns. At operation the soft tremes are senarated from the chia by an increase then the mouth the mental promisence as exposed through the baccal ortfice and the lower bp as tretched beneath the body chin Incision reealed a thin layer of bone covering first spherical tustor. The growth as not bony and yielded readily to sharp Limfe but not to the curette. The cutte oras, buch as the macof an Laglah alaut, was shelled out. The roots of the incisors protroding gato the amouthly hard bony cavity ere amputated All sustaceous areas were removed sufficient alveolar

process being left to form a bridge between the right and left maxille. Two years later the alveolar bridge was fractured by the chewing of brittle food. After another two years graft from the patient's tibia neath the skin to correct the deformity

P m W Sweet M D

Batnirides, W. S. Cancer of the Tongue Pitfalls in Disaposis and Treatment. J Am M Au True sale

The following cases were selected from 700 record ed cases of tone ue lessons

Case I The patient was man, 41 \care of age, who was an excessive cigar smoker and in the halat of holding the cigar in the right side of his mouth. A small, recurrent sore developed on the tongue 36 1 from the right side and 34 in from the tip. This sore had received mixed treatment with silver mirate, the roentgen rays and other gents but had permeted for a number of years Repeated Namer menn tests were peratty. The mouth was in fortid condition, and there was involvement of the glands of the neck. The involved glands were removed, the lingual arteries were higsted, and a few weeks later the tongue was completely extraed Following the operation the patient gained in weight and strength and became able t attend to his busi ness On year later be ched from recurrence in the n-ck

Case a A man aged 40 years noticed in May 902, small, elevated most half way back on the docum of the left half of the tourne Following the local application of alum and the disco tinuance of smoking this letson disappeared but it reappeared ben smoking was remined. The patient came for consultation in December on a when he had lost considerable fiesh and strength and was somewhat

cachecta:

Examination revealed hard, crater like ulcer involving the left antenor third of the tongue with the exception of the tap a buch was covered with a brownsh fortid fur The reports of tw pathologists confirmed the diagnosis of vascular enatheboma Immediate operation was refused by the patient who mested upon trul of roentgen ray treatment. The latter proved futile despute nine neeks systematic application. In the meantime the growth extended t the right side of the tongue and induration of th floor of the mouth became evident. Several glands were pulpable on both rides of the neck, and there was marked dysphages. In March, out, th sub-maxillary and subhugual glands on either side were removed with the salivary ducts and the hympathic neck glands not removed on mane where this was powerle T cels later the tongue was completely extract and also large part of the geniohy ogions: the hyogican muscles, the inferior third of the pillars of the fances on the left sade and part of the antersor pallers of the f uces on the right aide. In few hours the patient was able t swallow fluids. H was dis charged month later when he had gained

H was then able to masticate solids, t taste, to talk intelligibly and even to sing In May 19 : a small ukerating lesson appeared in the anterior portion of the mouth This was folgurated A few days after the operation the patient succumbed t nnenmonts

Cases 1 and 2 demonstr t that some cancers of the tongue are not recognized as such b t are mistakenly diagnosed and treated as non-malignant

neoplasms

Case ? This patient, a man aged 4 years, was operated upon in January 1907 for the removal of a This patient, a man aged 4 years, was small nodule n the tip of the tongue A wedge shaped section (a 5 cm long) of surrounding healthy tissue was also excised. The patient refused excision of the neck glands. The microscope showed suspacious cells only at the apen of the removed section and none in the nodule. The following day other small section was removed at the pex of the incision in the tongue. There was n recurrence of the emthelioma. The patient disappeared during the recent W 27

Case 4 The prisent was man aged 60 years who, in December o 5 discovered small, wart like spot on his tongue. A diagnosis of cancer was made and radium applied once in January and again in March, o 6 As the spot continued to increase in size, excuson of the tongue was advised. Evammation showed the tongue to be spotted with leuko plake I the center was a typical epithelioma within an ulcerating mass the size of pace. The urface of the tongu suggested syphilis. The Wassermann reaction was 4 plus. After five weeks of antisynhile treatment the inflammation barded, leaving an ulcer the size of sight near The cancerous and scierotic part of the t name was removed by conservative operation. The pathologic report was epithelioma. The patient recovered but in January o died of acute pneumonia Cases 3 and 4 demonstrate that errors are made in

diagnoung the type, stage, and extent of tongue

Case 5 The patient was woman as years of age the history of appendectomy performed in September, 10 9 and followed the next day by a sor little to the left of the median ha on the lower lip The lesson was diagnosed as a fever or ether sore, and treated with continents. It increased in size, and laboratory examination six weeks later showed angiosarcoma with considerable mitoria Radical operation was advised. Examination of the up in October 9 9, showed an elevated, hard, indurated ulcer the size of a ten cent pacce tongue was covered with leukoplakia spots one of which as nodular One neck gland under the chin and to in the left submanifary region were in volved. The Wasserman test was 4 plus. After antisyphilis treatment consisting of four intra enous and my intramuscular injections and the local appliexton of mercunal omtment the mass on the lip and the neck glands despocared. As the Wassermann

reaction remained unchanged, the antisyphilis

treatment was continued. In I bruary up: the Wavermann test as negatin. In M.) : 3 the patient reported excellent health and continued negatin. W. segmin reaction.

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INTERNATIONAL ABSTRACT OF SURGERY

MARCH, 1923

COLLECTIVE REVIEW

EXPVEXIAL

BY S S SCHOCHET M D CAMAGO
Formally Charled Empy was Service Vo. 6, Grantel Houseful, U. 8 Army

INTRODUCTION

THIS callective review a not an attempt to solve the problem of empyems but ducuses a mere of the numerous riews. Neither can it be claimed to offer anything new in reference to the reliciony ratiology or treatment. Its chief object is to present as impartially as possible the data it y as surgeons and internist differ whole regarding this condition and especially with regard to its treatment. This is especially with regard to its treatment. This is especially with regard to its treatment. This is especially with regard to its treatment of the report during the past five years, possibly because an unusually large number of empyema cases followed the recent epidemics of messies, influence, and various types of piece monor.

A study of their papers reveals the fact that a great number of writers are not familiar with the history of the treatment of empyema. This is evident from what they regard as new discoveries and new methods of treatment.

As stated m an estimatal () A showledge of medical hintoy m a most distressing single fine for its distress persistently that this or the other faw decovery is only a reduceovery. We must ensure that the concentration in the fact that generally the first steps were but haling one, not being backle to grant steps were but haling one, not being backle to persist them to reach their goal, and being our never progress on a more substantial hams is, after all, the only worthshile advance.

In abundant material it is not unusual to discover apparently new diseases, new symptoms, or new relationships between diseases and sympsympositie publication, after it the Surant Green!

tums, and apparently new methods of treatment Moreover, findings which in solated cases do not seem striking assume added importance when seen in numerous cases in a brief period of time

TITE TO S

In order that the reader may have a clearer conception of the evolution of the modern methods of treatment, a brief resumé of the history of the treatment of empyema seems warranted even at the risk of repeating facts known to many

The term empyems (it within and vious part) supports to have been used by the ancients to designate an internal collection of pas in the pleural cavity the lung substance (abscess) or the cavities of ulcerative tuberculosis. Actins () is believed to have been the first to restrict the term to pleural collections

The first description of the symptoms and nature of empyrms is generally credited to the great mater. Hippocrates, who made frequent members of the condition in his arlings (a) it is fully described also in the books of the Hippocratean school (Cos) but there is some doubt as to whether these were the product of his pear, it appears that Hippocrates gained his knowledge of empyrms and other descriptions from the control of the pears that the product of the pear to the pears that the product of the pears that the pears and other description from the scredited authors of the first book of Prombetics and the Coan Frogonomics when together enoughes to Adams (4) and other authorises, formed the basis of the Proposition of Hippocrates and contained an excellent account of the metas of recognizing.

this discuse one of the oldest known to medicine

(3) There is no doubt that Hippocrates wa
familiar with both forms of per collections in
the thoracic casity—tuberculous casitations and
cmpy ema—as we know them today. This is
estimate from Paragraph xy of the translation of

the Prognostica eigen by Adams

"Lmps ema may be recognized in all cases by the following symptoms. In the first place the lever does not go off but is slight during the day and increases at night, and corlogs sweats super vene there is a desire t cough and the patient expectorates nothing worth mentioning the ever become hollow theeks have red spots on them the nails on the hands are bent, the fingers are bot, especially their extremities, there are exclines in the feet they have no device for food and small blisters (phlyttænæ) octur over the body. These symptoms attend chronic crim emats and may he much trusted to and such as are of short tanding are indicated by the same provuled they be accommanded by these siens which occur at the commencement, and if at the same time the nationt had some difficulty of breathing Whether they will break earlier or later may be determined by these symptoms—if there be roun at the commencement and if dyspoces, couch and pis from he severe the runture may be expect ed in the course of twenty days or still earlier you may expect from these the runture to be later but the pain, dyspaces and ptylism must take place before the repeture of the aboves. The nationis recover most readily whom the fever eaves the same day that the abscess bursts when the shape discharges are small and conelstent, the matter bite smooth uniform in color and free from oblerto. They die whom the fever does not leave or when appearing to leathem, it returns with exacerbations when they have thirst, but no desire for food and there are waters descharges from the bowels when the expectorations are green or hard or patintons and imits. If these occu they die

It is evident from this ery lear clinical picture that rupture of an ab-cess int. the bronchus I indicated instead of rupture through the external chest wall. A similar effect is produced by artificial poeumothorax (b), a procedure first practiced over twent three bundred versi ago.

Hippocrates was familiar also th surgical procedures and called attention t it dangers of too early operation and too speech excussion of the pleural contents (7). With regard to preparate measures be tated that the patient should be prepared fifteen day after the one-of the discusse by washing him ery thoroughly.

with warm water. This recognition of the importance of cleanline's suggest. the dawn of a reptic principles (8)

With regard to the use of the kmfe it is stated in one book of the De Morbis (s) that before the incluion was made the skin was marked likewhere it is stated merely that an incision as made in the skin between the ribs with a swordlik knif (paxalaser or pax usis) the subjected parts being then perforated with a pointed knd (frem \$5:50kin javute) guarded by a piece of rag so wound around it that only a portion of its length the size of the thumb neil was exposed When the pus was reached some of it was allowed t excape, the mersion being then plussed with a stiff linen tent fixed to a thread. The tent was removed take daily for a period of ten days for gradual evacuation of the fluid and at the end of this time the cavity was allowed to empty uself In order that the jung hich had become secustorard to the presence of fluids might not dry too quickly warm wine and oil were injected through the faitula (o)

Therefore from these old masters we learn of the great danger of too endy operation and or rigid execution of fluids from the pleared can ity. They tell our also how it present the local tents and dramage tubes in the pleared can't be means of a limen throad, and masters or expening the use of old and anti-cyticas in the treatment of infection. They method of draming throat the rib in order that they maght frue a rigid structure, to cort, and month, was net-described.

by a later writer

The endung of the school of Cos was in open change the next five or wire centaries. Clear (10) meditioned centarian as a complexation of fine ture of the nils. During the arth and sent centures operative procedures lost { or asaccount of poor results. Instead of the table, a cautery was used—a method emploised by the habitant (1).

From this period t the intreesh crossing for a mires and caterio operation memors and those who operate the chess followed the directions of it processes in 1979. Pare (2) treated compresses in 1979. Pare (2) treated compresses by interviolal increases and resection of this life warmed of the diagnet of incompresses the contract of the chesses are at the mass and ad coated drawing of small amountment as interviol.

Early in the seventeenth century Horstoach coated early closure of clear counds in opposition to the time honored custom of keeping the fistula opened. The subsequent use of the tricar may also be traced to the practice of the seventee, th century

De la Motte (11) in 1772 and Hesster in 1748 advocated incision and ease up the injection of fluids into the chest cavity, which they concluded was a harmful procedure. Bass (14) was the first to succest that air should be excluded by means of a valuate opening which would close the orifice after the fluid had escaped. In 1810 Morand (15) suggested that the effusion be aspirated once or take at intervals of a week before the chest cavity was opened. Thus it is not surprising that when Seddlot attempted to popul large the sursical procedure. Dupuvtren (16) the greatest surgeon of his time, declined opera two when he himself was suffering from empyeme uttering the classical statement that he would rather die by the hands of God than by those of the doctors. The great Velpean had lost practi cally all of his cases of empyema, and Dupuytren had seen only four recoveries in fifty cases. Most of the latter however were treated by assuration

In 8.9 Larmee published his epoch-making work on succitation which made the diagnosis of emplement estate. Williams (17) recommended repeated lapping and the displacement of the pos with water injected through a double-tube cannols. If the position of disappears beemployed airtrate of silver and softum chloride solution, a procedure relationered by Declerch (18).

In later years chlorinated solutions were employed. Troussess (10) is ored particularly the injection of sodine but used chlorinated solutions also.

This brings us to the more modern and refuned methods of treatment. It us clearly evodent, however that the numerous new procedures advocuted in the specimen of the Great War are esumbar to those employed in the past, especially the late operation advocated by the great master Hippocratics more than twenty three centures ago.

ALATOMY AND PHYSIOLOGY

While it may seem elementary to review certain automatal and physiological considerations with regard to the thorax, this bank knowledge is necessary for a correct understanding of the spathology diagnosis, and treatment of empyrina. Green (so) believes that apparent dispract or mismederstanding of the true physiology and pathology of the condition was responsible to the high mortality of 34 per cent in one amy camp at 30 per cent in all amy camps (as)

In the following discussion the anatomy and physiology of the chest will not be described in detail, but mention will be made of the salvent points ha me a direct bearing on empyems

The lymphatics of the thoracic wall consist of three main groups

I A superficial group to the muscles and skin most of which terminate in the axillary nodes

The intercostal hymphatic vessels which drain the intercostal muscles and pleura. Those draining the external intercoatal muscles con back, and after receiving the vessels which accompany the posterior branches of the intercestal arteries, terminate in the posterior intercostal nodes. Those of the internal intercostal muscles and parietal pleura consist of a single trunk in each space. These trunks run forward in the subplemed tissue, and the upper six open seps rately into the internal mammary nodes or into the casels which terminate in the lowest of the internal mammary nodes (22) There are few hymphatics beneath the ribe. Stomata are found over the intercostal spaces, but not over the ribs Lymph yearels are also numerous over the inter costal spaces (#3)

3 The lymphatics of the disphragm These form two rich pleruses one on the thoracic surface of the disphragm and the other on its

abdommal surface

The austromeal relationship of the lymphatics of the chest wall explains the extension of lafective processes with the formation of abscesses which have been found to frequently beneath the stemum (as) and the posterior portions of the chest wall A point of great importance is that in resection of a ris we pass through an area with practically no lymphatics, while in thoracotomy the possibility of infecting distant parts through the lymphatic stream is greated.

The lymphates of the lung may be subdivided into two plenuse, a superficial piecus alticular beneath the pleura, and a deep pleura which accompanies the branches of the poinceary pleus sels and the ramifications of the fornoral. There is little or no anisatomosis between the superficial and deep lymphates of the lung except in the repone of the lutus. Miller [39] describes collectors of lymphoid tissue afrusted beneath the pleura.

The pleume, like other servis surfaces, do not have sensory nerves. Therefore contrary to the general impression, the pain or stitch of pleurisy is not due to the rubbing of the surfaces but is a referred pain caused, according to Mackensie (so) by spann of the interestal number.

Under normal conditions the intrapulmonar pressure expands the lungs until they fill that part of the thoracic cavity not occupied by other organs. As the chest cavity varies with respira

tion the volume of the lunes must change accordingly in order that at all times the lungs will fill fully every part of the chest cavity. The exponsion of the lungs is not uniform, however since different parts of these structures are not comally extensible. The root of the lung containing the broochus, vessels, and fibrous tissue offers the greatest resistance to an expanding force while the brouchful and vascular ramifications radiat ing toward the surface with polinopary tissue between them are more extensible and the outer as or so millimeters of peripheral lung tissue has the greatest extensibility. The expansion of the lung is accomplished by separation of the less extensible rays of tissue which permits the exparsion of the more extensible pulmonary tis sue between them (Kelth, 27). It must be remembered also that the expansion of the lung does not take place instantaneously and countly throughout. If the chest wall or the lung is per forsted so that air can communicate with the pleural cavity from without or from the bronched tree the lungs promptly shrink in size since the atmospheric pressures on the outskie and in the inside of the sac are then equalized

In addition to this purely mechanical action other factors must cone into pits, in the collapse of the lung. Rees and Higghes (83) and many other observes have noted partial and manuse collapse of the lung structure. Pasture (sq) was the first to attribute this to the refer unbalance of the displanges which he had observed follows here an advantual correction in which the dis-

phrasm was not injured

The intrapleural pressure is subatmosphera, being -5 millimeters during rest and -10 millimeters during laspiration.

BACTARIOLOGY

Perhaps no subject in the entire realm of mediane has been given greater attention than bacteriology during the recent pandemic of influence. As empty earn may be accused by a great variety of organisms, either primary or according maders, it will be necessary to include may ordinection bettern of associated lessons as effials those which occur in the respiratory tried.

The plears may be infected through the chest wall, the blood and lymph streams, and the result in the blood and lymph streams, and the result in the blood and lymph streams introduced must be pleared a carly through the thorses wall m gamshot or stab wounds vary m different localities, depending upone oul centamination, the clothing and detailness of the midredeal, and comy other factors. In France where intensive means of the many other factors.

cultivation is carried on numerous anacrobic as well as aerobic infections are seen. Elliott and Henry (11) report that 10 per cent of the cases of harmotherax are injected with angerolac bacteria. Griffiths (12) records two cases of emovema following ambigation of the chest Both retmary and secondary tuberen CHILLY losis of the pieura have been noted. Allson (11) records a case due to carles of the dornal vertebre Rupture of subphrenic abscesses or echinococcus cysts into the pleural cavity may lead to non formation. The contents of these cysts are very imitating to the threes. In one autopry per formed by the author in a case of empyema the condition was due to rupture of the ersophagus by instrumentation in the removal of a loreira body. Gonorrhene lymphatic metastasis from a pentoneal infection has been recorded by Boodberry (14) Otler (15) states that in Munich empyema was found in about a per cent of the autopoles in cases of typhoid fever

It is obvious that as a rule empy can is due to a respiratory infection. In spate of the visit amount of work which has been done on the respiratory foots, however no definite advances have been made in determining the relationship of the normal profuse inhabitants of the upper respiratory tract to a certe and chronic discisses. Bloomfield (50) believe that a serial oversitiative.

method of culture is necessary

Soper (37) reports that from September 31 to December 1 ont, there were 30 yro case of minerax among the troops in America. During the same period there were 30 yro case of portions and only of troops. The total strength of troops as about one and a half million. Therefore 11 is certered to say that approximately one in every live hald millioning, and of these, one in Section 10 of the section of the section

ith postumona two in five ded. The total number of deaths throughout the United States, in cluding the civilizin population, was approximate-

by 365,450 Blanton and Irons (43) report that of a sense of 357 normal persons caramned before the outbreak of the midneral spedeme, a hamoly tie streptococcus was found in the respiratory floca in 150 cmt. In set supply of 858 nasopharyngoid cultimore of defibrinated blood agar plates, Mater (53) findsite the influents bacullus in 39, 5 per cent, supplement in 18 aper cent, pneumococcu in 18 per cent, pneumococcu in 18 per cent, and (59) records a study of 1 s\$5 cases of pneumonia in which the moderne of empress was 0 per cent and the sputime examinations showed that the conduction was due to the pneumococcus in 48 the conduction was due to the pneumococcus in 48.

per cent (Pneumococcus Type 1 31 per cent Type s 34 per cent Type 4 45 per cent.) Strep-tococci were found in 46 per cent of the total number of cases, and of these 54 per cent were hemolytic streptococci John (40) in a study of 136 cases, isolated hamolytic streptococca in the sputum in 36 7 per cent, pneumococci in 31 8 per cent, and the influenza bacillus in 24 per cent.

It must be borne in mind that the bacteria mentioned may be found also in the normal mouth and pharynz. Davis (41) reports that no lexions of importance were produced in experimental infection of the intestme with hemolytic streptococci Hiss and Zineser (42) state that the hamolytic streptococci are found less frequently in the normal mouth, but may be present without causing disease. However the presence of the hemolytic streptococu in the mouth in association with some leaon of the resparatory tract is ant to indicate an etiological relationship

The positive blood cultures obtained throughout this epidetnic were very few in number John (40) reports 43 3 per cent positive cultures in the streptococcal infections, and 3 8 per cent positive cultures in the pneumococcal infections It may be stated also that 92 8 per cent of the cases with positive cultures of hemolytic streptococci were latal Blanton and Irons (41) obtained only eleven positive cultures in 510 in cases of mfuenza Hamburger and Mayers (44) look upon empyema as a distinct general sepais with asso-ciated pneumonia and quote Jochmann (45) as dating that streptococcal sepas may progress with the picture of a lobar pneumonia which may be the source of the senses or secondary to 1, and that the pleura may be the seat of primary empleme or serve later as a source of streptococcal sepsis McClelland (46) reports that blood cultures were positive in 50 per cent of 4,080 cases chinically disgnosed as influenza, and that in 1,31 of these pocumonia developed which in 416 proved fatal

In the opinion of a large number of author itative becteriologists the organism of Pfeiffer was not the etological factor in the pandemic under discussion. Jordan (47) states. We have in the pandemio miluenes an infection with an unknown or terrecognized virus which increases the susceptrickly of the normal individual to infection with various pathogeme respiratory organisms, and superimposed on the original infection we have a variety of secondary infections. Hektoen (48) and Vanghan (40) are of the omnion that the cause as unknown condition complicated by secondary infections due to bacteria the type of which is

dependent upon the local conditions in the dif ferent parts of the country

Nicolle and Lebsully (50) report the expenmental production of the symptoms of influenza in monkeys and man with filtrates of nasal secretions and blood from uncomplicated influenza cases. The symptoms observed were similar to those of cases occurring in the pendemie. Dujarrie de la Rivière (51) produced influence in himself by injecting the filtrates of blood from four persons suffering with influenza, More recently Ofitaly and Gates (52) have suc ceeded in producing changes in the respiratory tract with a substance which they have been able to carry through fifteen successive animals Because of these results they are of the opinion that they are dealing with the transmission of a multiplying agent rather than with an active substance produced by it

On the other hand Numm, Pilot, Stangl, and Bonar (53) were able to molate the influence organism in only 87 per cent of the 2,000 cases studied and therefore conclude that the pandemic was not due to a filterable virus Krumbhear (c4) reports finding a bacillus identical with that of Pleaser in 75 per cent of his cases Keegan (55) states that the results of cultures taken directly from the lungs show that bacillus infin cars occurred either in pure or mixed culture in 82 6 per cent of twenty-three cases studied. Rosenau obtained it in 83 per cent of twenty-ux autopases

In the report on the influence epidemic in the British armies in France (56) it is stated that the Pietfler bacillas was recovered from ninety one of a series of 220 specimens of spatum, from sixty of 164 specimens from the nasopharynx, and from two of sucty-eight blood cultures. Smith (57) considers becallus Pfeiffer the etiological factor

In various army camps the results of bactersclorical examination of the pleural fluids in empr ems corresponded more closely than the sputum and blood cultures. In 158 pleural exudates from seventy five cases examined by Dwhell (58) the hemolytic streptococcus was nolated in seventy four the influence bacillas in fourteen, the hemolytic staphylococcus in facuity two, non-hamolytic streptococcus in twelve, and the procumococcus in twenty-five Mamon (59) records finding hemolytic streptococci nineteen times in twen ty-nine cases, and Brooks and Cecil (60) have found them fifty times in eighty cases. Schorer Clark, Sanderson, and Dickson (61) report that fifty six of eighty-one pleural exadates from 181 cases of pneumonia were purelent. Hemolytic

streptocxed were found in 3.5 p.r. cent of the crudates, and 70 ta per even of the porulent pleural fluids. Blake (62) has made an interest ing observation on streptocecus viridars, he found that the changes occurring in the blood plates are due to the change of oxylhemoglobal to methemoglobal that this occurs only in the presence of it ing mycro-organizer that it appears to depend upon the metabolic activity of the bacteria rather than upon the Indience of the foundation that the interest of the particular terms, and that it interests of the particular terms, and that it is interested to the proposed that the proposed

Summons and Bligelos (61) report the presence of diphtheria bacilli in sixty cases. The strains isolated in 17 8 per cent were milent for guinea pags. The bacilli did not cause any symptoms and the patients remained carriers is till the

empyema ca ities healed

Stone (64) compares the percentages and the type of organism observed in the three series of cases of empyems as follow

|) Herena | Carr | traph scour Pi Taronas | Per crist |
|-------------|-----------------|---------------------------|-----------|
| 1 | 7 | 73 2 | 26 7 |
| 3 | Q5 | 73 6 | 26 3 |
| 3 | 85 | 70 4 | 29 4 |
| Ιn | chronic empyema | the bacterial | flora is |

quite varied. The harmolyte streptococt is main for a long time in the endotire Baoflias possaners was one of the most resistant organism be anter had; contend with in the chromoster of the was especially true in cases completed by booschial fields in which appropriate treatment for the elimination of this organism could not be instituted.

PATHOLOGA

When the pleanal on these contain a parallent credate the condition is designated as thoracs; empress or parallent pleans. The exudate arise in quantity from a few or timeters it several liters and its quality arise according to the mode of its formation its etiology and the duration of the divease.

In a restricted sense the juthology includes only the morbid changes occurring in the walls of this potential are which has been converted into a true cavity. As a matter of fact, fowever the pleum is the pimmary sent of the discuss in only cryfew cases. As a rule, the condition is associated to the condition in a second of the condition of the condition of the condition is associated to the condition of the co

ated with other lenous of which tima be regarded a part or sequela or is d e to the presence of a foreign body. Because of failure t recognize these facts protective collections of find in the pleural cavities in massive active pneumonahave often been evacuated surpically with fatal results.

Primary empyema may be attributed to two modes of infection. Heller (65) suggests that the pleural reactions can be induced by the absorption of bacteria inspired with the air and carried t the pleurs by th lyrophatics. However as the pleural and the deep lymphatics of the lung do not anastomose very freely this probably occurs very infrequently. Another hypothesis advanced is that in bacterizenias the bacteria have an elective affinity for the pleura Lichtenstern (66) remarks that in previous epidemics there were numbers of cases of severe primary grippe pleantes which began with challs a high continuous fever extreme dyspnora, and marked cyanonis, and in which in a cry short time there wa a rapid accumulation of pleural fixed in repeated postmortem examinations it was defimitely proved that these were primary pleurisles without any co-existing inflammatory infiltrations in the lungs Streptococci were often found

in pure cult re in the evod te-Nikersky (67) states that over 90 per cent of the cases of emps ema are due to post pneumonic processes spread by continuity from neighboring perforating absorves or to metastasis from dis tant lessons Rosenbach (68) suggested that roany cases of post-purumous empyetna may be induced by rupture int the pleural cavity of small subpleural abscesses resulting from the houefac tion of consolidated portions of the hing. Moschcowitz (69) apparently unaware of Rosenbach s observation draws a similal conclusion. He obsects to the common view that empressa is due to infection by continuity as this complication is not observed in infection of other serous cavities. Diffuse pentonitus seidom, if ever results from acute appendicuts unless there has been perfora tion of the appendix or necrosis of its walls Moreover infection of the pleura by contiguit would presuppose flow of lymph in a direction opposite t that demonstrated by physiologists and anatomist I a large percentage of thirty six autopues Moscheoritz found subpleural

As a role the parulent fluid becomes excepnanted by the depoint of fifting in the periphery of the cavity. These encapsulations may be single multiple, localized, or diffuse. While a scropurient plecurpy is alway, free, a purulent plecurpy in neural playary encaprulated The bronchial fluida is due to the rupture of a subbleural aboves unit the pleural ox 1; Only in

shace uses perforating to the pleura

rare instances is it secondary to rupture of the empyema cavity into the brouchial tree. When enapoulated persocerus in this afterst between the lobes, the conduscon is tenned. Interhobar empyema. This is the multiple enapsulated loculated empy ema. Dissecting pleurogenic puermodal is formed in the Interntuith trause along

the lymphatics Pathological changes in the plears show conasterable variation. Especially in pneumococcal empyema in children the pieura may present a normal smooth and glistening surface covered with a purulent evudate. As a rule however the orface is dull and finely granular shows marked congestion of the blood vessels, and is covered with flakes of fibrin. In other cases there is a pseudo-membrane which strips off easily leaving a smooth surface lined by endothelial cells. In still others the polyhedral endothelial cells may be degenerated or there may be degeneration of the sub-endothelial connective tissue, a change which may alter the character of the exudate Locke and Barker (70) are of the opinion that endothelial cells are the predominating type found in the evudate of influenza these are not seen in pleants due to streptococci pneumococci or other organisms. He does not state whether they originate from the pleural surface or from the endothelial cells of blood resels

Graham (71) has shown by experiments that in the formation of pleural evudates the respiratory movements are of very great importance and that the largest amount of fluid is formed at

the end of expiration

It must be borne in mind that in addition to the presence of associated leases of the lungs and the purulent evidate there is flattening of the disphraym and a decrease in disphragmatic movement due to partial paralysis. Barjin (rg) has shown that this paralysis precedes the dison and periods after its disappearance. It is not observed in cases of transidation such as the hydrothoria of Bright's disease, even though the amount of float is large.

The benons of the lungs may be divided into the boblar lobbar and interstitual bronchopmensons. The term interstitual bronchopmensons was introduced by MacCallum to designate a previliar form following measles and usually several test and the several test and the several test and the several test and the several test and lobbals pneumonia presented the will how it testibook picture. Interstitual bronchopmensons is described by Cole and MacCallum (32) as follows:

Ambru of the cases ppears t abow fairly

conclusively that the pneumococcus is responsible for those in which lobar pneumonia was found. The streptococcus harmodyticus, in most instances seems to cause a peculiar form of broncho-pneumonas which on account of its anatomical characters, I have designated interstitial broncho-pneumona. There are, however some cases in which this organism growing in overwheimung numbers or with especial virulence, produces a patchy pneumona of a type more closely resembling the familiar lobolate of bronchopneumonia found so often as a terminal event in personal dying of some chronic disease or in those in whom apparation of infected material has occurred. This may be referred to as 'lobular poeumonia.

One of these infections may be superimposed on the other and there may even be found lesions corresponding to each in the same lung

Fibrinopirulent pleurisy with abundant evidate has occurred with extreme frequency in these cases.

The intensitial bronchopneumonis has been studied in various stages in different cases and found to produce extraordinarily different appearances as it progresses

"In the earliest stage the pleural surface of the lung is smooth and glistening. The lung is in general air-containing, although atelectatic patches may be making their appearance. On sec tion, small hiemorrhagic foci are found scattered through the lung, each showing as a rule, a gray rather opaque center These foci measure from s to a millimeters in diameter sometimes more and are so small that several may occur in one of the secondary lobules of the lung that is, m one of the lobules marked off by the interlobular septa (W S. Miller) Microscopically it is found that these foci represent the ends of the bronchioles together with the adjacent alveols. The brouchiole and the ductus alveolaris are filled with leucocytes, among which streptococci are found in pairs or in short chains. There is some infiltration of the broachiole wall with leveres tea. and the adjacent alveoli contain a few leucocytes. occasionally streptococci, cosquisble fluid and great numbers of red blood corpuscles. Not only the alveols which form a continuation of the brouchiole but also those which he near its wall, seem to be affected

In a somewhat latter stage the lung oun still be the tended with air although the patches of collapsed lung are more extensive. On section it is found stored throughout large areas with small gas) codules which project above the cut surface like miliary toberdes and are often surrounded by a real or gravath halo. At this time

there may be vasible a minute cavity or depression in the center of each which marks the immen of the branchiole. This may be represented, however by the opaque contents of the branchiole. These notices have been mistaken by more than one for minuty ruberries, and it events conceivable that the peculiar appearance of this and later stages may be in part at least responsible for the almost unusered statement that mea les is commonly followed by tuberries. And

I shrinoparalent plearup, often with excessive effusion of greenish, turbed fluid, accompanies the process from this stage on. In a still later stage the lune is untaily much collared dark blue flabby, and suries except in the anterior portions. This I produced chiefly by the pressure of the oleural exacts but partially by the occlusion of the bronchioles. At this stare shot hke podules a or a millimeters in diameter may be felt all through the lung. On section, the roads airless lune sinks into a concave surface lea une the gray peribronchial nodules projecting conspicpourly as whitish-vellow lines marking out the whole lobulation of the lung into polycomal fields. In each of these fields there may be three or four projecting podules which now usually show distinctly a central bronchial lumen. The surrounding tissue may be fairly dense, so that the perfbronchal thickening is marked out chiefly by its opaque whiteness Hamorrhage may in some rases stain the outlying regions about the podules. If the bronchi be opened with the schoors, they are found to be lightly dilated toward the pemphery of the lung where they be come thick walled as they run into the terminal portion which form the center of the nodule The contents are thick and glutinous

In still later stages, more criterius enfiltration of the penhorochal tissue occurs, and sold yellow patches from to entimeters in danseter appear. The industries about these with orderna and harmorbuge because confloers to that quit large areas may appear consolidated Septication occurs only in the hours just before death and in only one protracted cise was there found an infarct like levoe in the spiken. In all the others the abloemical organs were normal

Other pathologist has a reported extensy changes in the other organ. Lock Waght of Kinne (74) state that of 225 cases of influence indiced at autopsy the employ showed acre parenchymious changes in the important and other structures aumlar to those observed in other sour infections diseases. Hamburger (73) states that parenchymious depensation and visuolication of the my coordinam occurred in the

statl cases. S unners Dimerstein, and Froet (77) describe another pletuce found at autopen in a group of influenza cases which resembles that of wood alcohol politoning vir an intense congration of the success without evidence of presumonic befoun or a receited only with beginn which were so small as to be negligible. Death was accompanied by ugus of applyagia. Careful chemical analysis failed to reveal the presence of polycors.

In the recent englerale the methologic lealons cre strikingly different. Symmetra (76) records an extraordinary variety of pulmonic lenons which arred in the two jungs of the same case and m the hopes of different cases. Concemitant semipurulent pleural exodates were observed in 40 per cent of the cases multiple pleural and subpleuril abscesses in 44 per cent, and latrapalmonary absences in \$5.5 per cent of all autopides There were extensive in asions of the interiobar and interlobular sections of the lungs and it wa not uncommon to find solitary multiple, conformt or discrete abserves of the parenthyma The presence of acut decemerative changes in the heart is er and kidneys was another striking difference in the recent englesise. Blood cultures aboved strentoment in to per cent of the cases. wherea in the pandemic these cultures were almost in anably stenle

In chronic cupy cans the pieurs varies in their loss from a few millimeters 1, or 3 centimeters Usually 1 is covered with granulation tissue and microcoopoully in composed of granulation tissue Collections of polymorphosiscker leavest test as a few areas of necroic tissue surrounded by more mature fibroblasts and showing round-cell inflations are frequently seen. Sections of pieurs from cases in which more chloride has been enjoyed show wall corole areas arrounded to desire the section of the control of the control of the form and other wall corole areas arrounded to desire the control of the form and other wall bacteria can be demonstrated in the necroit areas as well as in the outer zones. A large permitting of the pleums from chronic cases are tuberrulous.

Oxform clitis of the obsess not an infrequent complication. Attempts at home regeneration with busine even some of processes and bridge formation between the observe of the found. These oxforms of the control of the oxforms of the

EVERTORS AND DIAGNOSIS

The diagnosis of emprems is made on the observations of the patient and his clinical chart the physical argus, the romigen-ray findings, and exploratory puncture. Frequently it can be made only by exploratory puncture. Gray (75)

states that in many cases diagnosed clinically as lobar pneumona autopsy aboved no evidence of pneumonic consolidation, but revealed instead large amounts of evidate or fluid with attelectuas of the lungs. The group of cases presenting the terthook symptoms ofter no difficulty in the diagnosis. As a rule we find a decrease in respiratory movement on the affected sude and bulung and unreased fullness of the intercostal spaces. Vocal fremittus in absent. Percussion choti fishines or marked dullness except at the appear above the fluid where the note is almost terminative. On ususculption the breath sounds

are absent Thomas (70) describes a syndrome which he regards as pathognomonic of the rupture of an encapsulated emprema into the pleural cavity During convalencemes the patient feels a sudden sharp pain in the chest following slight exertion In a few hours he becomes critically ill the temperature rises to 102 to 104 degrees F the pulse becomes rapid, and respiration which is shallow and extremely painful, varies in rate between fifty and party per minute. The pain localizes in the lower part of the chest or in the abdomen Datention with marked tympany extending well up over the liver and general tenderness may be more marked on one side than on the other. The chest findings are not striking but indicate the presence of a small amount of find There is marked leucocytosis Prostration is extreme. Thomas believes this remarkable reaction is due to the to cernia resulting from the absorption of pus from the large serous surface rich in lymphatics

In the influence experience Relly (80) noted an unusual syndrome constitute of paravassal at tacks of pain on the right and at the level of the macrition of the daphragm. In many instances this pean lasted about held on hour and returned at intervals of two or three bonus throughout the day. Berring Lingnibubl, and Burt (81) record a severe infection affecting eight members of one family and causing seven deaths. Three of these persons due closed empy man.

Mention should be reade of pulsating empyrma, fant described by MacDonnell This is of two types in the interpleural pulsating empyrma, and the pulsating empyrma necessitatis in which there is an external pulsation. The pulsations are due to the heart impulse, but no estifactory explanation of the mechanism of transmission of the beats has been offered.

Wester (82) subdraided excapsulated empy ema into four types the parietal disphragmatic, and interiobar and an encapsulation between the

lung and mediastinum Peskund (83) describes an interiobar empyema which apparently followed latent posumonia

Empyens may perforate any of the thoracic viscers or extend to the external surface through a fittula opening at some distance from the pleural cavity. Foot (84) reports a case in which there was a communication with the poss muscle Meigs (85) had a case with a firstulous opening at the umbinous. These more rare complications are included in the discussion of the diagnosis as they may be encountered as persatent simuations and their true nature can be determined only by means of the \start variety with the injection of besseuth.

The X raw is a salushle aid in the early diagnosis of empsens. Nims (86) observed that free collections of pass in the pleural cavity are usually perceived by small collections between the lobes Manson (59) found the reentgen ray of values when the quantity of per san 200 cubic entities the most of the contractive of the same and the costologhargmantic angle is obscured. Contrary to accepted teachings, the shadow east by the Ly pus in lighter than that east by serous fluids and at times it is difficult to state from the plates whether on not pus is present. Shadows due to sanguinous fluid are relatively demanded.

Miller and Lesk (87) found that the X ray is all less value in the differentiation of pur from consolidation but gives accurate data regarding lobe involvement. Diemer (83) emphasizes the value of the X ray in the diagnosis of interlobar empyema, which is often very difficult to detect in the routine physical evanimation. Stewart (86) has pentical out that early effusions appear in the aniliary space and stand out in the outer some of the chest cavity an inbon-like shadows with a sharp inner border. David (90) coordines from a study of ,000 cases that it is impossible to distinguish anil amounts of fluid from consolidations of long turne. He points out also that as a rule the diagningm is higher and more fixed or

the turols of nde then on the non-pathologic side. Lambert (91) emphasizes the necessity for a careful \text{\text{Leny}} study of the cavities of chronic empyrems before treatment is undertaken. This is best accomplished by myecting a semi solid or find substance which is oraque to the romagen may and a not improved. See sem (92) advocates the use of thouma natrite, but in large cavilles this may give me to unpleasant reations and hematuras. Beck (93) concludes from his er persence in a single sense of cases of empyrems that there is no danger in the use of his parts; if the proper technique is employed. He does not agree with the statement that bismuth separates out of the supernion during the Y ray examination. The writer has seen Beck inject a large series of empressata without causing any unfavorable after-effects.

While the roentgen ray is of great aid in the study of empyema the value of a large-gauge exploratory needle should not be foreotten

COMPLECATION S

The cluef complication of empirema are separad perforation. Perforation into a bronchus is losbicated by an attack of violent coughing during which almost pure just is expelled. The perforation or rupture of encapsulated empirema int. the general pleural on ity ha alreitly been discutsed with the symptom.

Sublim death my result from too rapid a seen aton of the plearal content in and from injection of fluid in the chost cavity. In the latter case it due to a pleary-cardiac refer (vager). In errare in troots temporary bindness my follo injections of lasmeth compound. The writer observed this once in a series of more than 100 cases, when the injection with my definition of larger at 11 Apparently in cumbals with formed. The justices the missing cavity Apparently in cumbals with formed. The justient recovered completely in about tending

PROCNONI

It may be well to analyze the term prognous before discussing the statistics. The prognous before discussing the statistics. The prognous on the course of discuss It is possible to make a prognous only with a harman contraction. It is observed, then that statu ties on empy ema are of only academic value. If it were prosuble to astandardure the method of treatment and to agree as to the exist nature of empy ema are of only academic value of empress and to agree as to the exist nature of empress it would still be necessary to group the patient into numerous subdivisions on the law of their resultance.

resistance to full appreciated when e took the report of Graham (ag) to the Supprox because the base hospitals, and the United States from empirican an the base hospitals, as the reaction of empirican are the base hospitals. The reaction lates and general form the same of the state of the same of the same

if ther cent. High as these figures are however they do not approach the remarkably high death rate in some of the camps. At Camp Funston the mortality was &s per cent at Camp Green, co per cent at Camp Wheeler 65 per cent and at Camo Donlohan, 57 per cent Graham attributes the triking differences between the various camps to the fact that there wa marked disagreement a t the condition diagnosed as emprema and a t the method of treatment. The expedites a ped from a slatht turbed serofilemone dishwater th by demonstrable only microscopically to frank per recognitable on macro-cone ex amination. In general, the camps which reported the lowest mortality regarded a cases of emm ema only those in which the expelite was frank rsu. Con exch, the highest mortality was that of camps in which all cases showing even microscopic pus in the pleuril cavity were considered ന്നത്രിന്നു വേശ

If a include these borderline cases of poeumonts in the panderns: the prognous of empema must be classed a th that of bubonic plague and rulent smallton

Lerva and Legendre (95) stat that the prognosts of empyema should be lasted not on the nature of the dual or the organism found, but on the condition of the prejumons, processes

Miller and Lock (87) have classified patient ith streptococcal imprema int three groups. I Those who die earl from acut tourma

history treatment is given. Those it a multiple person. Death always result in such cases becase it is impossible to direct and drain all of the for.

Those with moderate i teems and localized put, who usually recover after early operation or suration followed by operation

Chendrange (90) In 'med earl operation apparation and the let also peaks in the testiment of streptococcus emprema and hi found that the result ire bout the same in the streptococcus emprema and hi found that the result ire bout the same in the three groups. A ording I Hah (92) the mortakit form the nouve (cerman clin as area form at 5 per cent. La row (63) gi es a mortakit) of 5p per ent for all asses, nod 4p per int for the ordinary of 5p per int for bildren under 1 year and 5p per int for those noder earn. Wilenda's (60) report a series of no oposecutar cost from the ventry opt to 9 4 in which the mortality was 35 per cent.

I cases tucked by (ns. (78) the mortalit 4t per ent when the mynems developed the first week, 20 per ent when it de cloped the second eek and only 7 per cent when it developed later than the second week. In cases treated suggically the mortality was at per cent, while in those not operated upon (not including cases operated upon late) it was 74 per cent.

The promosts of infected hemothers x depends unon the nature of the wound the causative factors, and the organisms in the clot. In a study of 450 cases Hutchison (101) found that bullet sounds were less serious than other gunshot sounds. Infection occurred in about one-fourth of the shell wounds in which the missile was not retained and in about one-half of these in which the missile was retained. In another communica tion Hutchmon (104) states that in cases in which the wound was closed tight the mortality was less than in those with open chest wounds Lockwood and Nixon (1 3) noted that if the darphragm was insured and not repaired the patient died. This was true also in cases of extensive minnes of the bony skeleton if the communited ribs and specules were not removed

Tuberculous empyems is usually a complication of pulmonary tuberculous, frequently developing in its advanced stages. It is obvious then that the proposits at gare. McLinnue (rea) reports on its entypeight cases of tuberculous empyems with murel milectons. Eight of the were treated by sagration and its entry by open drunage. Of the putents operated upon, one drunage of the putents operated upon, pinc doed, one recovered and the rost are chrossed invalids. Lettale (ros) also concludes that the prognoss of tuberculous empyems is very unfavorable.

According to Stevens (107) recurrences of em pyrma developed after operation in fourteen (15 per cmt) of fitty-ax cases reported by the Empyema Commission (100) as having healed under simple draininge, and in eight (per cent) of axty-seven cases which healed under Carrel-Dakin transment.

From these tatistics w must conclude that empyema requires considerable future study and can no longer be looked upon as a closed chapter in surgery.

PROPH\L\XIS

The difficulties of prophylaris in empyema are exceedingly great on account of the large number of factors which may cause this condition

In advocating the use of a mated vaccine of perumococcus, hazabytic streptococcus, staply) occured, and influenza bazillus for the prevention of influenza. Reservos (108) stated that only insertly-english of 481 pervosa on a born that vaccine was used the cloped influenza. Cecl and Austin (109) who have given a perumococcus. Extine to

13,460 troops report that the cases of pneumonia among varcinated troops were less than half those among un accunated troops. Vaughan (40) states that varcines have proved of no value whatever in miluenas. The cases of influenas in the pandemic showed a leucopenia while incertion with Prelifier's bactinos caused a leucoptosas. It is doubtful whether the etiological factor of influenas is known. Gay (100) was unable to demonstrate any vitue in vaccines in empyrema produced eperimentally in ribbits.

According to McCoy (111) the uncontrolled use of vaccines has led to the general Impression that they are of value in militians, but in every case in which they have been tried under perfectly controlled conditions they have falled to influence definitely either the morbidity or the mortishity.

McCoy Murray and Teeter (112) studied two groups of 350 persons. In the vaccunated group 115 developed influenza, twenty-three des eloped pneumonia and ten died. In the unvaccinated group there were 103 cases of influenza seventeen cases of pneumonia, and seven deaths.

A commission (rig) appointed to study vaccine therapy found that it was of no specific value in influenza but also that it had no unfavorable results

TREATMENT

As a rule emptyema is a complication of some other diverse. It should be brine in mind, therefore that the associated morbid process (present monal) requires appropriate treatment. It is obstous that the treatment of empyema should be secondary to the treatment of a measure-cive preumona. Fashure to recognize this basic fact as responsible for the appaling amortality during the pandemic of influenza. Curative treatment for the empy em should be begun only with the subsidence of the active associated lesions. Hygerien measures, numning duct, and routine measures are influented as in any other acute ill ness I or come silence of description the methods of treatment are described in the following order:

- I Non-operative aspiration dyes, chemicals II Operative anaesthesia, poeumothorax,
 - 1 Acute empyema
 - Chronic non tuberculous
 Tuberculous

The term non-operative is used here to include all methods of non surgical intervention except superative. Major (114) reports twenty seem cases treated by superation and the injection of gentian violet into the pleural cavity. There were fourteen ures and eacht failures. The factori-idal preperties of gentian violes have been determined by Churchman (115) Emile Welland Lo seleur (sat) emp med a suralar method en ept that they injected methylene blue and air into the plemalea for Ultimately seven of the twelve cases came to operation. After careful experimental stuft Gas ar 131 mon (117) ha come in the conclus in that there is I tile certaint of the ultimate prefulsers of drestuff as due fectants in fact malifolocities. Sherrill (114) aid torate the off method of injecting a a per cent sol then If must ni glycen andre sets a de mater th mortality at Camp Sherman from 50 percent to expercent the later emperication m the end trialt. In these cases Doder (110) m port that of the filters patien, reported currel four were list the of and the remaining eleven were readmitted to the hospital within a few erk for subsequent overstein. Maryon from haterque de l'ute circi esci et (141) en stroign at ation and theire in of a ster entirema La solution in glycena b 1 sa alle to e te a single cure ob amount in it methodal milita

in v. be. Lived a a be filed be now persistence and creations after data than section and creations to the method for memorial by Williams (). The first forement for high williams () of empirical has given an impact of the conditional method of treatment. The are seen in Labors is which simple appearation of a portion multi-different form of the production of the properties of an autopassis of the production multiple form of an autopassis of the production multiple form of an autopassis of the production multiple form of the production of an autopassis of the production multiple form of the production of an autopassis of the production of the productio

matter of one mon knowledge that a m their

cederal flow theil boths i formali and the

Louise Dicherich (19) employs method at h

It just pack to Bled I accur I the number of caree obtained by this method is so and original a to the third of old or recognized per claims to the third of the recognized per consistent in the permission secondary largers in other origin (employed operations) is great that such area integers annothed overheaded to strongth.

PERMINET FOR E

farathe a. A. a null leval and thesa I yashould be employed in all extrapleurit operation. Bartlett (122) nocloses that in the next fatur it will be necessary to crabble hinder for the use of per foll and local attributes. For major in decated, but it must be remembered that the anesthetic may did the crusting pathologichet condition. From a careful analysis of the statistics, Cutter (13) h. found that one patient in erchy tharts to lifts operated on

develops a paramary complication regardless of the samethetic used, and one patient in every 100 t 175 dies from such a complication. The prerace of sepel is a factor Arm trong (124) ha shown that in thirty-6 e of fifty five cases in which a larg complication developed there was service focus in some part of the body. Herb (125) rejects remarkable results with other and hour properly befored. For major thorsaic surrers lasenth I (119) prefers the citrates heal admin a training of other. Cwatheres (127) concurs with tatement that magnerium substate enhances the action of morphine. One-eighth of a small of morphine in a cer a cube, centimeters of a as per cent of m greenam substante will rel eve ru a from ten t thirty hours miter I of from two t foot hours a sett care benit is gi en in seile r Italioniko eraloek wheb isaach an en portant factor in thornoic surgers. Crile and Lower 1 % ascribes 1 oak t exhaustion of the entral errors erstern Da (ers) has shown ex permentally that historiorm causes the prestest texter I shock either the next greatest, and r

THE Lide the minimum degree P cumiting Limbart (30) has bown by c teful experiment that open preumothers enture the essent or hance in the lunes in resustle carbon dorsal ontent ad the hydroerrim or entration of the Unit and reduces the resouratory ore tient. Graham and FeB (131) have proved erroreous the common belief that lengthere i office forch gina unditeral men meanotiers farmed are thorough even tained in the ther lung. It has been shown also if I biliteral open mourous wax in the pormal best is no root directions. I be than undateral preumothorax provided the total open area on the two decisions larger than the area of one opening It is lent then that the pleasal ites must be ear freed a me sai Only in all from these in high the media total pleuts

ery much the kened may the to when be combeted sowney? Independent (radars/(11) has been also that theoreticall an opening 8 by o entime ten us in the largest for shack compensation be established in man. Mayor (37) on indirect if it is mediatelised used to a written of the tentant of the media tumum error brack (14) atomic and opening so the chest wall in compensated to describe the state of the media tumum error track (14) atomic and opening and opening and opening and opening and the chest wall, increases the diaget of infection, and results will uncreases the diaget of infection, and results and an article disturbances in the circulture. Norm (32) sates that disprove the to imperfect all resilt methods of the mediating and results and resilt methods of the second imperfect all resilt methods of the second imperfect.

to Streelman and Rosenblatt (136) the accumulation of finid in the pleural cavity is induced by therapeutic pneumothorax.

It is evident from this research that open pneumotherax affects the opposite lung if firm adhesions are not present or if the mediastinal pleura is not thickened and accustomed to the

changes in pressure On the basis of treatment Moschcowitz (60) divides acute empyema into three stages the formative, the acute, and the chronic stage. In the formative stage the more important conditions demanding treatment are the torremma active pneumonia, and extensive pleural exudates. It is obvious that the treatment of the empyema itself should be only palliative Palliation is best obtained by simple aspiration relieving the comnresson of the lung

Stone, Philips, and Blue (137) have shown that the mortality was 63 8 per cent in eighty three cases without preliminary aspiration and 22 2 per cent in cases with deferred operation preceded by aspiration Stone (64) reports the results of the cases in eachty five cases operated upon early the mortality was 61 2 per cent, and in ninety-four treated by early asparation and late operation it was 9 5 per cent

In the formative stage, asparation alone is indicated. Further medifications surgery will only increase the mortality rate

In the acute stage the pus is walled off and the treatment is that of any other abscess

There seems to be general agreement among surgeons that early aspiration followed by late operation is the method per excellence. Liberathal (38) Aschner (139) McKenna (140) Ashurst (14x) Ransoboll (142) and many others agree that this procedure gives the best results. The chief point of varance is whether the open or the closed method is indicated. Even if the closed method is employed, there is a leakage of air into the leural cavity after a period of a week or more Mosingo (143) Philips (144) Delbet and Girode (145) and many others claim to have had the most excellent results with the closed method. The use of antiseptics in the thoracic cavity is another desputed point

While a great many good surgeons have reported very excellent results from the use of Dakin a solution (146) acrifiavine (147) proflavine (148) crystal violet, and gentlen violet (115) there is another group (Moynihan, Lehbman, Burghard, and Wright, 149) who believe that the treatment of suppurative wounds by means of antiseptics is "illusory reasoning

In 1915 Ser Almroth Wright (150) stated that

an antiseptic if ever sterihzed a heavily infected wound it would be a matter to announce in all the evening and morning papers. While there is no doubt that it is possible to sterilize the surface of empyema cavities by the Carrel Dakin method (151) the writer is convinced by his experience with this procedure in over 200 cases that it is impossible to stenlize the deeper underlying structures as microorganisms have been demonstrated in the thickened walls removed from emnvenus cavities so treated

Excellent results from thoracotomy and rib resection have been reported. On anatomical and physiological grounds (distribution of lymphatics) it appears that nb resection should be the method of choice. The mortality rate as reported by Graham to the Surgeon General is less following mb resection (31 3 per cent) than following

thoracotomy (39 4 per cent)

Healing is prevented in empyema by many factors such as foreign bodies (fragments of missiles, and especially lost drainage tubes) incompletely dramed simple or multilocular pus pockets, and ostertis of the ribs. Gibbon (152) concludes that if the cavity is thoroughly stendized it may be sutured and the lung will gradually obliterate it. Petit (154) reports six cases successfully treated by this method after an old sequestrum of the ribs had been excised. Tuffer (154) reports forty-seven successful results from secondary suture after stenhization of the cavity and decortication of the lung Stoney (155) limits his treatment to sterdization of the cavity and secondsry suture

Delorme (156) classifies chronic empyema cases into three groups (i) those in which there is no fever and the general condition is good (2) those poorly drained and febrale and (3) those with bronchial fistula. In the latter two groups a pleurotomy is performed to bring the temperature to normal, and in a subsequent operation the thickened pleura is removed to allow expansion of the lung Libenthal (157) suggests decortication with non-collepsing thorscoplesty which he accomplishes by separating the ribs with a special retractor He advises immobilization of the lungs if December

Other operations for the treatment of chronic empyems are based on the principle that if the hing cannot be liberated and camed to expand, it is necessary to bring the chest wall to it. The two most important operations of this class are the Estlander (158) and Schede (150) operations. The so-called Estlander operation was first per formed by Warren Stone, an American surgeon (New Orleans, La.) in 1873 six years before I the resentatived it if there is no at 18ent

liers have that accepted a new number of empyemacases with he made a Lorett more insume case let to desiral a kind b earth lin which a attempt to mark I line the (a) its the linflux (ita)

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4 Proper distrage is if most important factor in it treatment. Int septik may be m placed, but they sever supply the 1 min in

sense and good long call principles 5 Negati e pers ure greaf e than - o milli meters is probabl | t as harmf !

6. I thorough tudy of the case and tereo at the plates thould be made before any operation procedured undertaken The removal of forcig body uch a a lost dramage tube or the im provement of training men be il the more sars for cure

Departmention without in all ties of the chest wall is indicated in oil chronic empremat which have re-cited all simpler means a treat ment. The Ransoholi disci con of the picura is often followed by good result

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ABSTRACTS OF CURRENT LITERATURE

GENERAL SURGERY—SURGICAL TECHNIQUE

ANACSTRESIA

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Draener has induced anosthesis in thirty three cuses in this manner but his does not consider his technique any better than the Schlech and Crie sorth oils. The Warthoyl procedure is dangerous because of the economic by large douger used.

KUDGLUGH (Z)

Koenig, F. Experiences in 600 Cases of Local and Conduction. Amenthesis. (I rishrangen as 600 Faelies von Lokal and Leri neymacubesis). Dest selectische f Chr. o. classis, 87

For injection anenthesis, as the author designates local analysis and lumber aneathesis, novocane B tablets are used at the Neurolong clum. Tropo came is employed only for humber aneathers. The question as to the best doungs of accounts is still undecided.

In the 600 cases reviewed there were only twenty are failures (43 per cent). These included lumbar per vertebral, and persascral ancestbests, and splanchase ansathests induced by the technique of kappes of Mulley. When Induced in the proper addications and suth a correct technique, superties ancesthes well take the lakes of semeral americhas.

In discussing its dangers Koeng tates that considerable canded and circulatory disturbance is present in the objection cases (4 of per cent). The case of lombs and parametrical states them can case of lombs and parametrical states them concare of lombs and parametrical states them could not be attributed to the procedure. Slighter could not be attributed to the procedure. Slighter creates symptoms appeared in 10 cenes. Market respectory disturbances occurred once when the Mulloy technique was used and one as parametric best assentions in the temporary arrest of spar took them. There is marked centration. Venturing of curred in twenty 1 cases (for time in abdomain operations). Vertago beaders and in entire respects in 1 cuty-one cases. In one case of stream which part or by an architecture was produced there was collapse in Cheyno-Stother brushing but the patient recovered in certain second attention of the contraction of the con

Consideration in the state of a short little great in return to the first Conjunction of the state of the sta

Jonnesco, T. A New Yechnique for General Spinal Antwithesia (Nos elle echnique de la rachinertialme générale). Preza méd. Par p. xxx 0.79

Since 903, a total of 50 6 operations (176 high and 385 low) have been performed in Johanne clause under spanal an exhibit any details and without any server immediate of late compications. These Johanne adult similar operations by others, which brings the total to 174 operations (1915 high and 0,369 low) with only its latalities.

Jonnesco is convinced that, as the result of the new technique be describes in this article, general spanal anysthese all soon become the method of choses. It is applicable to all cases and operations It is simple and ears, and demands no previous preparation of the patient. The equipment required consists of only a fine 6 cm needle hypodermic injection syrings, and an ampulla containing the anesthetic solution. The spead puncture, high w los is made very cash). The method is rapid since the peacture can be made and annethern follows so about five minutes. Apart from its technical ad an tages, spinal general mesthesia has also the advantage of precision as it is regional and segmental and is effects can be limited to the nerve roof selected ith almost mathematical cractness

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The fart thangs made by Jonnesto in his original method was the addition of strepchine to rivariant Since to 1 be has added caffeine also, but since May 9 has conflicted the strepchine and doubled the caffeine. The employment of the new matters has accessarily modified the technique slightly and in certain types of operation the panetizes point has been channed. We A BENEVAN

Scholl, A. J., Jr. Further Experiences in Sacral Annuithesta in Urology California State J. U. 017 22 4 3

There are t o common methods of amesthetizing the sacral nerves, is the injection of novocume volution into the main central canal through the candal foramen, and the individual injection of eigh nerve six the a set h lateral sacral foramen

The caudal injection is satisfactory for most operations on the permetum or extrantal gentiality, and for practically all endoweskel procedures. A single caudal injection bowever requires twenty minister to indice complete amentheds. A further data-drantage of the method is that in from: 10–5 per cent of the cases the resulting anisothesia is not complete.

When the lateral nerves are myested individually here as shown innectative attentions of the area much of and failures re unusual, but it is much more difficult to inject the nerves as they leave the canal than to mak the simple canada impection, and the contact of the needle sgainst the periods union the occasional straining of the nerve causes pain

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SURGERY OF THE HEAD AND NECK

HEAD

Zebrowaki, A. Malignant Tumor of the Temporal Bone Ass One Edinal & Laryagel 9 xxxx, 139

Malipant tumors of the temporal bone are exredulps are. The wilder has had three such cases in the third case radical mustod operation as performed for chrone otitis media and mustod list ith range growth of the tumor and subsequent death. The history of this case is reported in detail.

At autory a disposon of cancrost originating in the epidermis of the middle ear as made. Metasta as was hunted to the glands in the immediate vanify of the temporal bone.

Coold injections give very autifactory augathesis for urological examinations and treatment. The wall of the bladder is completely relaxed and the bladder distended. Such relaxation with absence of pain and straining permits the operator to carry out a thorough unburited examination of the bladder and nevters.

In certain conditions, such as severe cyatitis and pyclonephritis, caudal injections have been given in order to facilitate is go of the renal pelvis. In one case ten such injections were given in seven

w eeki

The reaction following cytoscopy in severe cases of cyritis in frequently doe to voluntary muscle spasm around the cytoscope, especially in the region of the neck of the bladder that does not occur after sacral anesthesis. In member of cases of prelocaphritis and severe cyntria in which periodo renal lavage was given the treatment was at first carried out under caudal anesthesia but later merely with urethral occanization. The convincion in these cases was invariably much smoother and easier when caudal anesthesia was used. In several instances, patients refused to submit to cystoscopy without caudal anesthesia.

Waderoe S., and Dahistroem, S. The Dangers of Lumber Ansetheda (Les dangers de l'anesthésis lombare) Acts che scand q le 7

A eview of the literature on intrasplinal lumbar anesthesis creals the fact that of all this dangers associated with the method, respiratory paralysis is the most common and most frequently fatal Such paralysis may occur immediately after the infection or hours or days later

Air or various dies injected into the spinal canal in the lumber area reach the cerebral ventricular system within few innuites. The authors before that the drug injected for anisothesis reaches the fourth ventratie of produces a depressant effect upon the respiratory center.

LOYAL E DAVIS, M D

In some of the cases reported by the author was a radical mustood operation successful, and only two cases reported in the literature were cured by this

procedure

Early total resection of the temporal bone in cinding the pyramid, has been performed in three cases, successful result being obtained in one. The most difficult step in this procedure is the freeing of the dura.

The author recommends a radical martoid oper atom ith ligation of the carolid artery and the jurilar vens and removal of the glands to be followed several days later by a second operation for the removal of the entire temporal bone

MARCON H. HORAND, M.D.

of orange in

t

Sachs, B.1 Shall W. Decompress for Closked Disk!

And hand by Probat 10 1 this 5 1 Of late years Such has lost faith in the efficacy of decompetes you fee choked disk

O-r-) undered and lore) brain tumors were studied.
Of these forty five were completely unlocalised and riners fi. is localised daring the period of name tion. The t ble shows the relationship of choked of kit the sait of the tumor.

CIPRITO DONE I MARIXO I TRACEL IU ILEMANA
mobile di Chile i del
mobile
m

In series of thirty-right cases decompress on as performed for the relief of choled disk. In series cases the in of the time remained holly in homes. If set aline cases showed no recrusion of the coordinal during probagate obserts too. If four cases there was do not be provinced. It cases showed high recrusion in the of other time since set forming no recrusion optic strophsistent of the desired of the coordinates of the sates of the other course in strophy or v. b.

de rioped to a later period. There my he some satisfact to if any loos i returned, but this does not prove that decompression promotes recession of holest disk.

When the presence of a tamor of the cerebell in or th cerebellopantile angle w 34 pected the subor qut I region chosen for the decomprestor.

Obsted duk does not necessarily induct the presence of neoplesis of the brain, and some times a recedes spontaneously.

Can't near MD

4

Gordon, A. Universités city of Symptom i Some Cares of Postocershellar T mors. (et las Mel q x 600

Special localizing proptions of acoptains deviloping last be postcorreledar single are described in shetual and series cases are reported to lach the symptomic work again water last in the course of the pathologic condition. The article contains also flux tritions of the seven brain.

I fig of the seven cases the incr ased intra realist pressure fulfed to produce changes in the oculus fends. In the trootin cases the hanges appeared only hort time before de th. A postill sign common to all a error in the posting reaction. I four area th level was inclused toward the side of the tumor and her an attempt we maid to more the the opposite size the patient companied of headse. We discussed verve in of emest we noted in only two cases, for of the patient is it may be in Birker test C. R. RINGE, MD.

Dickle J & M. A Con ribution to the Study of Brain Absense line () First & Lorent's 122 Ye

The a thor review sixty seven caves of stogener trail become collected from the lit rature and reports se of embellar energishis and case of

temperory branched abserved. From 1914 I as 8 m th. Ed. burgh Informary the freq errory of branches was said the 6 to model as 15 pc. crat. I tractarulate our licetoms of occur more than twee as wifen. Choose in

media as to the acute round tay.

The left closs introduced by direct est as we the upto the tegeness typings to bloke as the most securior, out its cases of temporospheno (all ab-

we've or by nail septic embob in the thod.

I hout had the cases of temporosphenoids
becree there ere ru compile thou, but I those
of crebellar aboves, ompile too were about it

onl three deceaters.

The number of the cases— such the condition to flowed an argum to the ke d or in stold operation suggest that training may be takened factor. I retain cases bowever abscripts has

disappeared after the tool operation There is no in reptom of brasis abscers that is on that or putbornouse and selden are more than few of the amptorus present in any one case, There ple we re generall noted (1 an meal t er of enembaben to mable stage of cerebral I ess to red (1) terrainal tage of oral fore of the more import it or common symptoms are mental designances of aroun kinds drownwaonly in the second and final states) vomitors chiefly in th line (stages) ex (growth) barat in crebral aboves but sometimes present in circlellar become obstinat omstipation, partic larly hen the pressure becomes great uptor negrith toccasionally present in sales with present

las mg fortugett se riore) pepillari classes subnomal pulse resperators of ges leucocytom nertused cerebroposal find person and leal used pain noted in tappang over the region of the absects.

Temporosphenoidal bactes as also show focal

using emptoms such parabase of the appoint side convolutions and plans

Crebell baces has many nor localising signs than temporophenoliti absense Anong these are 3 tagenus vertigo lick of muscular tage intention termor repetited vawaging and right.

of the maneters.

The case of crecivitize encephalitis reported as
th t of box of y cars who had had demana.

ear all his lif Mastorditts developed some time after blow on the car followed by exposure to cold wind five days later. Operations on the mestord and cerebellar region resulted in complete

DECOMPOSE OF THE In the case of temporosphenoidal abscess the condition was due to chronic otitis media. Opera tion was followed by death. Autopsy revealed a

large abscess In conclusion the author tates that brain ab scenes can be detected by repeated careful neurological examinations and that every patient should be given such an examination before he is subjected

to radical masterd operation MARCIN H. HORART M.D.

New, G B. The Delayed Pedicie Flap in Plastic Surgery of the Face and Nock. V sucrets Med 9 2, 7

The peduled flap found most satisf ctory by New m the so called delayed flap which h first saw used by Blazz Da a claums that Croft first ad ocated the application of this flap. It as employed

also by Taghacozn

The delayed flap is outlined and elev ted from the surrounding theme as if it were t be transferred but a then returned to the wound and resutured in its original bed. The sutures are separated sufficiently to allow oozing between them Furm pressure is applied by means of gause and adhenve plaster for at least eck to hold the flap in place and to prevent the collection of blood or serum under

If the length of the flap makes the blood supply to the dutal end questionable the flap may be left attached t both ends and the dutal pedicle cut off m a week or ten days. The cutting of the pedicle should be done a little t time rather than all at once In ten days or tw weeks from the tum the flap is first elevated it may be transferred to th defect. This is reachly accomplished without anisathens, the area around the defect alone requiring encammation. Although the method necessitates an additional step in the operation, it insures the blood supply and usually prevents the loss of any of the distal end of the flap

The use of the delayed flap is recommended by the author also for the closure of non-operativ openings in the palate and for the closure of wide

cleft palate

Where the delayed flap is transferred the skin is thin and flattened like normal skin. Therefore the direction of core of the transc as in the tubed flap of Gillies is unnecessary. If a double epithelized flap as required to fill a defect in the nose or cheel.

Thursch graft, with its raw surface up, may be placed in the wound where the flap has been elevated In suturing the flan the needle is passed first through th flap, then through the Thiersch graft, and then through the margin of the skin

The results of this method of treatment are show by several illustrations

NECK

se, J. Clinical Experiences in 848 Operations for Golter with Special Consideration of Re-current Golters and Operations for Recurrence Duba, J (Khanche Erfahruagen bei 840 Kropfopmationen mit besonderer Bersecknichtigung der Kropf Ren dres und Randi Operationen) Schweit med Welreache on his oo 03

The author set himself the laborious task of going through the gotter material of the Kantonspital Unterthur for th years 914 to 1921 During this time, 844 patients were operated on. In the first half of the period the unilateral operation was practaced almost exclusively but in the succeeding years the bilateral procedure was done with increasing frequency (5 unilateral and 58 bilateral opera tions)

For anesthesia, the second Kulenkampff modification was used with the best results. In 260 stru meetomies the wound was completely closed without drainage and in these cases there was less disturb ance of wound bealing than in the drained cases If a sufficient capsular covering of the stump of the parenchyma cannot be achieved, the previously described muscle covering a used. This prevents not only the formatio of a hamatoma but also the formation of serum

thor saw hemisplane of the thyroid rland in only seven cases. In one case cacheria thy recordy a followed an operation performed by another surreon One case of postoperative tetany as cured by

transplantation

With regard to injuries of the recurrent ner-Dubs states that every patient with goiter should be examined with the laryngoscope before operation and on discharge. In the cases reviewed the recur rent lars geal nerve was not exposed in the disaction Permanent lemons of this nerve resulted 9 per cent Squeezing injury of the nerve resulted in permanent paralysis in four cases in state of the fact that the nerve was not cut and was grasped only momentarily

The material of 19 4 to 9 9 was studied with regard to the recurrence of gotter. Only cases in which the patient was re-examined (153) were in chaded in the investigation. Every regrowth of the goster which was visible and pulpable was counted as a recurrence Only 44 7 per cent of the patients were found free from recurrence

Hemstrumectomy has been rejected in the author's vicinity because a recurrence develops in 67 per cent of the cases so treated. Even when the goster is distinctly unilateral the unilateral opera tion is insufficient. Dubs believes that while the ligation of the four exterios does not prevent re currence with absolute certainty, it limits it to great extent. He is unable to draw definite con chasions on this point from the cases he reviews however as only four of the patients who were subjected to ligation of all four arteries returned for examination

Operations for recurrences were done in 6 per cent of the cases. Jiner than shall of the patients who were operated on our for recurrence developed another recurrence. Because of his conviction that there are gotters which causes the entirely cared by surgery, Dubs recommends prophylactic treat most with bother following operation.

Herran (Z)

Kloor II., and Helt Ig. A. Recurrence of Golter (Urber Arophresi here) Eli B heade 9 (, 1884

The utbors revise from the standyout of received in Lease of poster operated upon by the classical methods and followed for five to eighteen tests. A recurrence developed in a per ceit an operation for recurrence was performed in a per ceit. Most of the recurrence developed is between the twesty first and twenty fifth years of age.

Recurrence is dependent less upon the type as operation than upon the character of the porter. The small needled in temors and the diffuse collect structures show a particularly strong readency to recur. At condang to the authors, the cause is too catend is receivan in these fourties of poster. Intercore is the selection of the operative procedure live function of the thyroid must be taken into consuler toon. Reserving the operation of the selection in the service of the control of the service of

Okada, W. The Treatment ad Prognasis of Carcinoma of the Laryn. Ass. Old Alesel & Largest o. 223, 80

An experience with over 400 cases extending or period of twenty years, and a study of 4 cases oversted upon constitut the basis of this ery

teresting article

I practically every early case of lary ageal cancer
in hich the disease as limited to nodul lesson of

the ocal cord and there was no involvement of the ventricular measures or fastros of the cord, the souther obtained persavent cure by endolarized speratuce, with or without the see of separation, with or without the see of separation, with largeageogry. These care, however numbered suplarized, Alexance of most content of the ventrole of demonstrated by the use of the author's ventrote of the content of the content of the content argument of the content of the content argument of the content of the concented surpleady the spec house has been a casterned with the garances tray or treated by an pylection of radium.

all protection of radium:

It it cases with involvement of the ventre ular membrane or muscles, thereforey with a preliminary trachectories; as performed according to the suggestion of chian and Semon but with

only fair results

Of 506 cases operated upon in the manner described, many of which were not good suspend risks, thutty-six, bowed no recurrence after there years and fair few er or cared. Of ten recurrence, three were cured by reoperation, the risk were glandular recurrences, some of which could have been claim by curred by reoperation. In sur cases death resulted from other causes—this form wrets.

after the operation

Chloroform is the anesthetic of choice, but an cases or operated upon successfully under local anesthetic if corns, M.D.

SLRGFRY OF THE CHEST

CREST WALL AND BREAST

Itid, J. K. Bleeding Breatt (with Few Canter Statistics from the Determinen Hospital (below bittook Hamsus mit core kinors krebetsistik are dem Krasierijane Drammen) | herb II g / Jegendent 9 (1921) 59

I o case of bleeding breasts are reported. The first as the for which 45) in old, the most before the state of four children, whose left supple had security some what bloody to bloody serous find during the list half year. It issues as demonstrable on particular that the state of the state

structure somewhat similar to that of advacearcia-

The accord case or that of a onian 18 years old he had given both to t children. The left upple h d dropped blood for six celes and tumor the ups of a nut had grow to the size of mandare.

Microsopa, casafication received carcasoma. From 50; to 0; 1 cases of cancer such thirty three cases of beings inner loopstal. Assess the cases of carcasoma there was only one with become from the breath in right cases of carcasoma there was only one with become from the breath in right cases and probable that bester tumor bade only one with the case of carcasoma from the cases of carcasoma for which the versup period of observation of the tenor is floorier monthly, their only 0; to 0; there were

thrateen cases with period of observatio of nine

months. A bleeding breast as a rare condition. The bleedme may be vacarloss menstruation or due to inflam mation of the breast of a neoplasm Benign tumors canning hemorrhage are cystadenomata and intracanabeular papallomata. Hemorrhage is frequently the only sign of the latter Bleeding occurs in only to o per cent of the cases of mahamant breest tumors, but as malignant tumors are far more commen than benun tumors, hemorrhage should sug cent the presence of carmnoms

If the cause of the bleeding m a neoplasm, the treatment should always be operative as a benign tumor may undergo malignant degeneration

CONTINUES (Z)

Lee R. J. The Treatment of Recurrent Inoperable Carcinoms of the Breast by Radium and the Roentgen Ray J Am If Am 9 s, hmz, 574

This article reports the results of study of recurrent mammary cancer treated in a breast clinic during the years of o o and one Practically all of the a 8 patients hav been traced to the present date. The object of the study was to deter mine whether or not raduation treatment of recurrent carcinoma of the breast is justified by th

Only tox of the #18 cases could be considered fairly as operable. Amety four were so far advanced at the time of admission that they were obviously hopeless from the outset. Of the 24 patients in whom favorable results from irradiation might be expected, thirty-one (as per cent) were alive t the time this report was written, and of these, the condition of twenty two is good while that of nine is

DOOL In the cases treated by graduation following the appearance of recurrence, the average length of his after recurrence has been two years and four months This compares very favorably with a sense of cases observed at the New York Hospital The length of life after recurrence following radical amputation without subsequent irradiation was six and one-half months While the author is cognizant of the vary ing come of different types of breast cancer be beheves that the results cited indicate that irradi tion is of definite value

In general, the more cellular the tumor the better its response to treatment by arradiation, and the younger the woman and the more rapid the recur rence, the poorer the result of urradiation

Small localized lemons in the intracts scular egon or adherent to or in olving the chest wall, small localized skin metastaves, and small accessible nodes are most amenable to treatment by radium. The recurrences which are best treated by the roentgen tay include diffuse cutaneous involvement, the socalled inflammator, carcinoma, extensio in ol e ment of nodes in the axillary or supraclas scular reports mediatelinal and pleural metastates and bony metestases

A study of the cases in this series leads the author to the following conclusions

r A careful selection of patients for operation must be made as precaution against the recurrence of breast carrinoma

2 Pre-operativ and postoperative cycles of rounteen-ray treatment are important prophylactic measures against recurrence

3 A follow-up of every case of carcinoma of the breast operated on should be adopted as a rou-

Irradiation properly applied to recurrent breast carenoma definitely prolongs life.

5 With more complete knowledge and better technique, further control of the recurrent phase of this disease may be expected

Andrew Harring, M D

Sittenfield, M. J. Doss Radiation Enhance Post operative Recurrence of Carcinoma of the Breast? J Raisi 9 m, 476

Surneal statistics indicate that surgery alone is far from satisfactory in the treatment of carcinoma of the breast. Over 70 per cent of the patients thus treated do ot survey the five year period and most of those who do had early localized tumors without clandular involvement at the time of operation. Of those with amiliary or ther lymph-node involvement less than to per cent survive the five-year period. It is the latter type of case particularly which should be given the benefit of whatever ad ditional treatment may improve the ultimate re

Marked discrepancy in the results reported by amous authorities relative to radiotherapy plus surrery in the treatment of breast cancer induced the author to make a critical study of seventy three cases thus treated under his care. His elimical observation since the introduction of the modern terbmuye of intensive radiation within the past twenty months has impressed it upon him that pre operative or postoperative radiation with proper technique will greatly improve the end results. Of the seventy three cases, filteen were given pre-operative ratiotherapy and twenty three postoperative radiotherapy Of these thirty six sere arrested dinically and the other to were favorably influenced Twelve cases of recurrence following operation aboved dinucal arrest of the condition in more and no favorable influence in one two of the patients died. In fifteen cases there were distant metastases follow ing the operation, three of these patients should chrocal arrest of the condition, three were not benefited, and nine died. Of eight patients who were inoperable when first seen four showed a clinical arrest of the condition, the same rendered operable. and to dred

From this brief clinical report it is obvious that though t has not given a chinical cure in every case pre-operative and postoperative radiation has exerted a most beneficial influence. The argument ad anced by the discreanes of postoper the radi

up half plot of blood. The patient did not appear It In the lower right smile and back there was percussion dallocus associated with chiminished vocal fremitus, harsh breath sounds, and prolonged exreration. There was no rais or do proces. The temperature was 101 degrees I the rules 110 and requiration 4 Harmopts in occurred a three consecuring days. On the third day the beenth became fortid and the physical signs at the right base ere more pronounced. The duly tempe ture ra ged from so to tot degrees ! The source organism us the offenal a senture were clarify streptorocci and rucrococcus catantali. A natch of akodiac traonance de keerd in the right have The 1 car rewraked no foreign body but showed an irregular oracity in the lo et t o-thirds of the night lune suggesting a cavity. The right chest scarcely moved with requiration. The rotions gradually grew weather and died t enty seven do from the time of her adminish to the hospital

At stoppy the congested left hang should collapsed patch near the apex. The right pictural carrier full of dark-brown I all englishes fluid containing fragments of dulategrated lung. Only the lower part of the right lung remained and this was cancrenous except for few at 11 which or solid and evilations. There were no advenous or enlarged lymph glands. A small states from the right side of the low r end of the assertinger led rate the gangersous mass in the right ricural he foreign body was found. The laver and my ocar

duem showed clouds line

Case a was that of man ared 40 years who com plained of dyspore and pain in the right chest During the past 1 enty year he had had broughtes and emphysem and on several occasions had been

treated in a botutal. Five years previously he had had fits accompanied untilly by aemoptysis and on one occasion by vomiting. There was siways oralderable sputum, which sometures was blood stained but did not contain tubercle bacilli.

At the time of examination the nations terperature was no degrees ! his pube roo, and he resperation as Clubians of the thumbs and adreaced in orthora were noted. The write contained compderable quantity of albumin. Rike were beard over the entire chest, and expuration was

prolonged

The patient expectorated duly about 6 as, of purturn which showed pay cells, attentococci, and micrococcus catarrhalis Six days after his admission to the hospital he had an track of hemop-

type and died

Autories tes and in the grouphness, appointe the beforestion of the trackes, a small perfered area, across luch surrow fibrous bands ere stretched Behind the brade small opening led downward mto the right broachus fast beyond the tracheal biferestion. There was no sign of surrounding suffermenation. The tracken and brought contained

large quintity of cougulated blood. At the base of the right long were dense pleural adhesions. The left lung was seaminous ind the lower lobe aboved ordens and congestion. The upper right lobe con taland an abscrae surrounded by consolidated and partly necrotic lung. Near this area were to gritty particles which analysis showed to be cadming (nowably a tooth filling). Hierabere the lane times was congressed but not consolidated. There was no suberruless. Both kidney showed subscript glomeralotabalar acplanta.

RAITTE C Breast AD

SURGERY OF THE ABDOMEN

ABDOMINAL WALL AND PERITONEUM

Coyt R. The Ametomy and Surgical Bearing of the Nerves Found in the Abdominal Wall Land o col of

The anatomical distribution of the belomical nerves les es ertus area where belominal chapter or be made with both durger of mers in jury. In entering the abdominal all the nerveales. seare of a in bove the first trunk on buch there

is no large nerve, an ideal space for the increon for galf Middler operation. The mention may be made obliquely from the omer contesternal angle for distance of 4 in those diager of injuring any lurg If accessery it may be continued outward in further in bich case only one serv trunk, th except intercostal, ill be cut

After percent the rectus she th on its out border the nerve passes into the crutes muscle near its center Therefore the incuson may be made vertically through the moer bull of this muscle with out injury to the nerves buch an acusion may be used for appendectorsy. Hecause of the almost horizontal position of the low person, the appear this can be approached also through an incision begraning seat the antero-superior speec and curving

inward ad downward in the form of crescent Exertlent exposure for plenectomy can be ob tamed athort nerve rajury by making on the left ide an incinen aimilar to that for grill bladder

operation and vertical increor from it paner end down the midline of the abdomen Master H House M D

Wreders, R. R. Radical Operation for Femoral Hermin with the Ahl of Active Mancache Closers (Radicaloperation des Scherkelbesches mittels eines aktiven Musich erschlower). Il ertreit Chr. perren officies 191 L.S.

In radical operation for temoral betwee 11 redex's asm as to restore active musicular closure of the femoral ring. The region of the crural canal is ex-posed by a V-shaped faction with its apex over the public sympleyers. After freeing and amputation of the hermal sac, a strip with a lateral base is dissected from Proparts is highered, drawn under the pectured from Proparts is highered, drawn under the pectured from the Joung his lower border of Prouperts is among to the pectureal muscle is then inserted. When the numder of the abdoment or of the thigh are then hought into play the femoral rung is closed by the restored pectures abdomlatal muscle connection.

The author has operated successfully by this method ten times

Person (Z)

memod ten canca

Histondall, II The Redical Operation for Inguinal and Fermoral Hernia with Pisatic Use of the Userus through th Abdominal Cartiy sad Simultaneous Laparotromy for Another Conduition (Des Radhafopenson on Lesten and Schedichersum artist planeaber ver author that the Cartinophysics of the Cartinophysics of the Userus Cartinophysics of the Cartinophysics of paid (of piset on all as address Grunde). Les paid (of piset on all as address Grunde).

In scordance with the suggestion of Freund, the subset unlines the stems in the operation for plants score of the femoral mag through the abdomnal carts. The term is mobilized by means if the vasco-stems fold, peaked to the safe, and sutured as paid in frost of the internal femoral may appelimently procedure the internal femoral rang as subtractly, the bennial sac being jet in tast?

Smalar methods for the treatment of femoral berma through the abdomen wer originated by Ochlecker Madlener and M yer and are described for comparison hats (2)

Soutter H S. The Operath Treatment of Difficult Hernise Brit U J pr n, 24

The closure of bernal ordices by this method is correctingly simple. When personnel sac is present the margins are drawn together with care to present the margins are drawn together with care to retain portion of the sac. The nesthod is quate statisticity who for cases of bernas in which there is no true personnel asks as the marrounding tassets provide as adequate trachment the opening in provide as adequate trachment then gottened by interface, the same provides as the same provides as the same provides and the same provides and the provides about 10 in square. In the opening together the tension being only such the opening together the tension being only such

as will bring the margins to their normal anatomical position. H A McKerour M D

Denser B. S. The Duagnosis of Peritonitis and Peritoneal Transadates by Means of Abdom lins! Puncture with a Capillary Tube. Arch Perial 972 EDIL, 180

Because of the difficulties in the diagnosis of peritoriats in Infants efforts were made by the author to de use an interment which would demonstrate the presence of minute mounts of fined in the peritorial state of minute peritorial state of metal troots estimals it in long and with a ryaque bore he metal to the minute of the minute of

In over hundred taps done in this manner there ere no complications E.C. Rozmann, M.D.

Reichle The Surgical Treatment of Peritonitis (Eur chlurgachen Behandlung der Pentonitis) Zeureill f Chr. 922, xhx, 997

If the primary focus can be wholly removed the bedomen is entirely closed, even in the presence of crudate. It is washed out only if it contains a large quantity of gastro-intestual contents. Michigar's tamposade as employed unless the surfaces can be entirely covered as the periodorum Particular attention is paid to the cul-de-sac of Douglas. The abomem is closed tightly around the gains drain. In the total number of cases of appendicties treated by the author—inching cases of periodicities—the more tality was 5 per cent, while in 130 cases of severe periodicities in the performion (among which were namely seven late cases) it was 58 per cent. Goobel, Berchard, Hufschmind, and Michhor em.

ply tamponade as hitle as possible and through narrow openings in the abdominal wall. Pande considers a o o per cent sodrum-chloride solution too mitating as a wash for the suppurated abdomen and ecommends normal salt solution Goebel, Hoffmann, and Rudolf advese enterostomy when necessary Guetig emphasizes the fact that ether escapes too rapadly and may favor postoperative adhenous. In cases of abacess of the cul de-sac of Douglas, Rudoff introduces Pregl's solution through an abdominal dramage tube. He finds that this prevents the secretion of pus and favors rapid heal ing The stomach is washed out Brossmann re ported the cases of to persons ath acute perstorates who came to the operating table is such a grave con dition that he was able only to open the abdomen, drain the pest, and pour in 200 c cm of marcotic ether A cur resulted in both instances

SCHOLINE (Z)

GASTRO-INTESTIRAL TRACT

Moppert, G. G. Geogramous Perforation of the Scientisch, a Compilention of Disphasinship libraria (La princiption de la riconas par gaughte compilention de la herus disphasimatores). J. de her. 9, 32,431.

U life a perforated gaugemous atomach a found a soon as the abdomen a opened. I ree of debenom it floats in peritoreal cavity filled with guttie contests. If the surgeon does not make thorough exploration be attributes the localized captured to a perforated nicery pidegmon, a solvalum or attenumentation compression, when the litter execution and the pidegmon is the litter execution and the contest of the litter execution of the solution as a field benefit.

is contents through the perforation. Mospert describes three chancel cases of gain gresons storned due to displittinguistic herma. The next with to de use anged a years who had congressed his tun of the displittings in high the storned, omeration and optices had probably been movilved since introduced in the displitting in the patient is not retained to the displitting the processing storned of more than the patient as a coverated group the day after the entireft the hospital.

th symptoms of perstantin but died.
The second case as a case of congenital disphrag.

matic bernit in a girl of 73 tra The stomach was strangulated in the we and had perforated and become freed. The patient also died following an

ODERALION

The third case was that of a woman aged 8 years he had a congruital herms and neareststoned the stomach the symptom of scate obstruction and perforation followed by recurrention and perforation followed by the declaration of gastric concentration to the personnel cru ty. Death occurred as hours after non-table for the personnel cru ty.

I general gattre perforation occurring in transquirted disphragmatic bernis has been attribnted to drulus. In 500 disphragmatic herize Pix (logist herive accompaned by workups of the storn ach and is most cases this — constructed by perforation. I think the statement of the storn foration is the statement of the storn of the transverse colon. In the three cases reported by Hoppert there was no workup.

R A Bethea

Hatbertann, J.J. A Fibrano of the Wall of the Stemoch Adherent t. as Elect on the Lever Curvature (En Fabren der Magenwald werzeh son mit same Geschwurt zu der Meine Agn alwei) Vollei Tylicke Gewest v. 2, hr 927

Cancer and ulcer are among the most common lemons of the stomach, while gastric sercoma and easing lipoms are very rare. On the other hand,

fifty five cases of fibromyoma of the gastro-intestions tract were reported during the year 191

The author describe the fur combinious of Fature there with fibrons or the stomach. The samest caused by the fibrons led to the assumtion in the thomor was partly responsible for the development of the other. I the other's opinion to fact that the fibrons, as mutated out the fewer the fact that the fibrons, as mutated out the fewer was the fibrons of the fibrons of the fibronsis, condition and the cherry are accordant to pressive condition of the cherr was accordant to

Lore (Z)

Delore X and Dunet, C Repeated Interrentions
i Gastrie Carcinoma (Des interventions alts
ii et dans le cancer gastripo). Ret de clar Par

The authors ad ocate secondary surpical rater extion in cases of gastric carcinous is fock in supplement of stemos of the artificial opening be

come manajest. The grative-enterotiony opening may become cheed by involvement of its gratine side by the gravity of the gratine side by the gravity of the gratine side by the proposition of other structures immediate of quiests. Though the secondary operation is only pulsarize the whom believe the formation of a secondary that the gratine of the gr

Cignouxi, O. The Imperiance of Acceptibilities in Surfices Practice (Longortams, dell'accesses setts prairie chirumpus. Excepté interest d'els terre 1017 st. 446.

When worms take up definite location in the body their tork, profacts have cry important effect upon the blood, the nervous system, the imperature, and the heiritium. Several investigators have found that in similar post torus predictions.

m y cause death

Curnous discusses in particular the secondary phenomena due t the disturbance of orms from their fixed locations and their migration carved by operations on the abdomen Migration is almost are vs upward. Both ether and chloroferm cause the detachment of orum from the intestual sources and les there free in the intestinal famou Common cateronathies my be complicated by a mptores due t orms, and the postoperative course is such cases is often similarly complicated. Custom has f expensive observed such deviations from the normal m patients know to be carriers of orms. The phase often culmmates in the youring of worms or their discharge in the facus. Twelve to twenty-four hours after operation there is perl umbilical pain, and after forty-eight hours omitting occurs. Such that a bances are in no y due to the primary lenon of the operative technique. The blood shows a decided cosmophile sometimes higher than so per cent, the pulse as wash and frequent, and there may be meteorem and distribute. The disturbance may per sut for several days, nd it is only by startmenton

of the omittee that the surgeon can determine the cause of the condition During the attack the in testine may or may not show an acute catarrh In some cases migrating ascarides cause periora

tion of the intestinal wall The conclusion drawn by the author is that pu

tuents with a history of worms should be given treat ment for this condition before they are operated W A Brancus MOOR

Lane, W. A. On the Treatment of Non Maleinant Affections I the Colon Lawers 9

Lane regards all abnormal conditions of the colon to the direct or indirect result of chronic intestinal stess II chambes them rate t main groups, viz cases of intestinal stagnation in which a reaction takes place and those in which reactio is lto eether absent

One group is characterized by the formation of bands to the colon One band of importance forms at the right thac crest, another below the gallbladder one t the spleme flexure, one at the left that creat, and one in the left tha force. The first and last re the most emportant. Mention is made also of the so called Lane kink or band kinking the terminal ileum

According to the anthor these bands ar all evolutionary identical in origin, function, and structure, and due to the effort of the organism to meet an broomal loading up of the bowel resulting

from distal obstruction

Another important development which arises not infrequently in consequence of the strain exerted by the loaded cacum as hat Lane calls the controlling appendix, an appendix which acts as a ligament, having become attached by adhenous to the under explace of the measurery behind the end of the sleam If hen the sleum and carcum drop into the pelvis the sleum is kinked abruptly over the anchored appeadux and its lumen is more or less occluded. The linking of the anchored appendix f vors obstruction of the ppendiceal inmen. The removal of such an ppendix a followed by great benefit

It is in this type of static colon that cancer of some portion of the gastro intestinal tract common

ly occurs

The other extreme type of chronic intestinal stasss a characterized by complete absence of effort on the part of the organism to oppose the elongation and prolapse of the large bowel, no new equired bands or membranes being formed. The pelvic color becomes greatly elongated, forms many abrupt angles in the pehin, and offers great registance to the passage of solal maternal through it. In consequence, an injection of the mucous membrane of the proximal rolon takes place producing cohins and its complications

In cases of obstruction associated with the formation of bands the operation for the first and last kink, as Lane calls the kink in the left line force. consists in careful separation of the bands which

form the kink and the accurate apposition of the peritoneal edges if any are left deprived of serous covering Other bands and a controlling appen dux are then dealt with if present. If an Real kink is found and the membrane is extensive, a drainage tube is put in because the acquired membrane co tams infecting organisms

In fat subjects another complicatio of obstruc tion with the formation of bands is diverticulities This may be met by inserting the divided end of the drum into the pelvic colon. As in cases of colectomy the nationt should be instructed to secure three evacuations daily. In some cases colectomy offers

the best results

Tuberculous ulceration of the colon following obstruction is frequently limited to the proximal half. For this seguela, either of the operations men toned may be advaable

In cases of disease of the colon without the formation of bands, auto intexication is the condition requiring attention. This is the result of infection of the contents of the small intestines Such infection causes most serious degenerative processes in every tessue of the body and renders the subject liable to infection by other diseases Shortening of the colon, colectomy or the uniting of the divided ileum to the pelvic colon is indicated when medical methods have failed

A complication of the clongated large board is a chronic or scute volvules. This should be corrected by operation Lane has excised the volvulus and performed a colectomy for this complicatio same procedures may be applied to meracolo Much the same treatment is advocated for severe cases of mocous and membranous colitis, but re-

sorted to less frequently Cancer is the final condition following chronic intestinal stars

CAME R STEPPER, M.D.

Lockhart Mummery J P The Treatment of Acute Obstruction from Cancer of the Colon. Lencer 922 ccm.

A small incision is made over the circum and a knuckle of the cecal all drawn out and protected with game swabs. An opening is then made in the carcal wall with a kuffe, and a rubber drainage tube shout 1/2 in in diameter is pushed into the circum for a m and stitched to the ceral wall with cutent, cach statch going through the wall of the tube and packing up the cercal wall 1/4 in away from the tube When the sources are tied, a cuff of cercal wall has been turned in A pursestring suture is then inserted well sway from the tube and tied so as to turn in more of the occal wall. The ends of this suture are tied and brought through the deep fascia and pentaneum. One or two other sutures are then placed so as to fix the creems at the point at which the tube enters to the deep surface of the abdominal wall, and the abdomen a sewed up around the tube A wide collapsible rubber tube a tied to the end of the rubber dismage tube projecting from the dresshaps and curred to a pall under the bed. The tube

remains orate water-light and gas-tight for as long as a work, and as the contents of the crecum are liquid, they drun ready through it no leakage takes place in the sound and the patient is kept dry and comfortable.

After the obstruction has been releved and all signs of t nembs have dampeured—generally me five or art days—th shdomen is opened in the mid-line or on the left edd, and the cause of the obstruction ascertained and devil with under the most

f orthle circumstances.

These openings close in a cek or ten days and most of them do not leak after the tube has come away. If the occum is not distended, exploration is actled for as the obstruction is in the small bowel.

Cast R Strongs, M.D.

Fansier V. A. A Scalping Operation for Abscesses
About the Rectors J-Leaces 9 xk
367

A substantial percentage of percental abscesses have—connection with the boxed complete fixtule being formed when they are opened

Whether a bowle opening is present or not, the best treatment is estiy and redeal incoson, the cound being kept wide open while the cavity is granulating from the bottom upward. If the owned is not kept open a deep centry or more in a small certainal opening results a kine needers being and certain opening results a kine needer being and appeal before in preferable to snaple straight accesses.

To obtain so despen out the author reomments solding the absense A thirst crossshaped increase is made as near the airm as possible and the extent of the absense currier explored with the finger and probe. Removal of the four segments of the also formed by the cross-shaped superties of the also formed by the cross-shaped superties cross-shaped and the absence of the absence of the cross-of-shaped superties cross-of-shaped superties the greatest diameter of the absence.

The method gives a truncated cons-shaped as typic to the course of which neary to dress and to medicate to its depths. Frequently the use of aims and or so per cent sid or intrins solution. If held small opening uses the bowel. If drission of the spinners is necessary later the patient will be a no worse considers than following an ordinary measured of the state of the definitely measured the solution of the abover, not the tract. If he definitely

defined

In the author's experience the removal of the akin
flap has not protonged convalences. By the time
the would has granulated from the bottom, the
skin has contracted and beated dow
to meet it

Warrix C BYEER, V D

Pennington, J R. Carcinoms of the Rectom and
Pedvic Colon. Age. and Site-Incidence and
Prophylatals J Am J Am o a term, Sep

In 7 74 cases of carenoons of the rectum the coa dition occurred between the ages of 4 and 70 m 75 per cast, and between the ages of 4 and 8 in t enty four cases. Cardnoms of the pelvic colon has been found in a boy of 9 years and in a girl of 12

In , 8 of series of 570 cases the cancerous tensor was within exect of the casumonly faster. In the remainder it was higher up in the bowel or at the rectosegmoid praction. The autorior wall of the bowel is generally an order More frequent rectal examinations are necessary to discover the condition early.

Internal palpation, with or without procincery and agmondancery to our their relations in the disponent because more of the serum or other tests to fix introduced has prive of relating Belleving, pain, and distributes are not early again of circumstal of the return, but the evidence of considerable disagger return, but the evidence of considerable disagger return to the process of the process

LIVER, GALL-BLADDER, PANCREAS,

Bodner L Cholecretitis Cystics (Cholecretitis Cystics) Arch f pells tool 92 CESTUR, 279

The ation describes the autopsy findings in the case of a woman 60 years old ho was operated on for strangulation Bens and died from hypothetic operations.

The gall bladder contained it o facitied controls When opened, it was 7,5 cm long, cm wide and about 7 to 14 cm that. At the cat serians the mirrors was inheficient, the thindness waying in mores was the inheficient with thindness waying in said particularly in the mende layer the sectors above of numerous, very summits, spherical, insortivabled spaces and also harper once up to 4 mm in diameter score of both ore located just under the serious. These spaces were lined by high cylindrical serious. These spaces were lined by high cylindrical controls in the open control of mortes and golder colls.

Is the examination of the arral sections at was obarred that all of the caution, including those which appeared closed on all adea, opened into the former of the pall-bladder between the fields of the imnoratembrane. In the all of the pall-bladder there ere also changes characteristic of the chronic tobecy attain help ladd on the course

Bodhar belawes that most of the cyatac extribes that there organ in the Londhid afters and that only some of the small ones in the repon of the large spaces may be regarded as morous gland distinged by these the regarded as morous gland distinged by the sease. The distribution of the Londhid and the sease of the regarded as the sease of the regarded and the provided of their periodic limiting in distribution to passes, distribution the lattier is responsible alone only in the perspectable parts of the extriber

In addition to inflammatory systamon, pecubarcapacity of the epithelium of the Linchka ducts to problemate smust who be assumed as an ethological factor. It is possible that the findings described are characteristic of presunctions steps Bunes (2) Morison, R. The Distinctis and Treatment of Cholelithiasis. But II J 92 005

Of the many theories advanced to explain the formation of gall stones the most un; ersally popwher has been that which attributes it to infection of the gull-bladder. Some predisposing causes are more common than others Among the former are repeated pregnancies, obenty and a sedentary lif In the author's experience the most frequent cause a insufficiency of fluid intake.

The subjective symptom on which a diagnosis of gall stones can be based reasonably is severe pain referred to the epigastrium. This is often very sudden in onset, in some cases lasts only a few moments and in others for hours, and catches the

breath before inspiration is complete.

A tender area over the gall bladder on deep pal pation during forced inspiration, discovered during the attack of the characteristic pain and lasting for time after it, is reasonably reliable indication of gall stones, the diagnosis based upon t proving correct in earlyt cases out of ten

A gall bladder tumor or Jaundace preceded by typical attack of pain is usually a positive clinical

radication.

There is only one reasonable treatment, vis operation. In the author' opinion, cholecyst tomy is the best operation when the cystic doct is putu low.

If the gall bladder shows serious infection it should be opened freely the stones removed and the gall bladder walls and intener carefully in spected. Unless the gall bladder is so obviously diseased that recovery seems impossible t should not be removed. If infected, it should be drained If bile ducharges freely the tube should not be kept in for more than few days and never for mor than two weeks

If the gall bladder is so severely diseased that its recovery seems impossible it may be dealt with by cholecystectomy or the thermocautery

The author believes that in calculous cholecyatitis the removal of the stones may be all that is necessary but for primary tholecystitus, the operation of election may be cholecystectomy

HANGE CET MD

Willems, C. The Technique of Exposing the Billary Passages (Technique d. la découverte des voies beharres) Arch f ence-belger de her 922, EXV 834

Willems refers to the danger of vertical incisions Vertical incisions near the border of the rectus cut a certain number of the terminal branches of the lumbar nerves supplying the muscle walls, causing unilateral paralysis. Transverse incisions are much less dangerous and when they are exactly sutured and heal by primary intention do not impair the muscle junction Willems has used such incisions long time. The lumber region being raised cushion, the incusion is begun near the median line, extended outward and obliquely along the costal border one or two fingerbreadths below the ribs, I about the rite of the lower border of the liver and continued to a point in the flank which is determined by the condition anticipated. It cuts through the right rectus, the obliquus major the obliques minor the transverse, and, in its terminal part, the anterior fibers of the great dorsal moscle. The muscular bed traversed is therefore thick and formed of several planes

If the liver is free from adhenous its lower edge rises into the ound when the abdomen is opened If othercoss prevent this, they are detached. The liver is then basculated on the edge of the thorax to expose is lower surface. This is accomplished with the help of a special assistant wearing thread gioves over rubber gioves. The besculation greatly facilitates the approach to the biliary tract, the performance of cholecystectomy catheterization, the extraction of calcula and hepatic drainage

W A BREDGAR

SURGERY OF THE EXTREMITIES

CONDITIONS OF THE BONES, JOINTS, MUSCLES, TEMPONS, ETC. Melchlor E. A Paculiar Form of Tumer Like

Osteomyelitis (Eine Sonderform der "tumorar ugen Osteomyebin) Med Klas 93 xviii 395

This is brief report of case of outcomyelities of the left thigh following influence in a man 19 years of age. The onset was gradual and the ducase was localized within narrow limits. A cortical seques trum buch was formed remained in it during the entire course of the condition. The clusted picture was dominated by massive, soft granulation tissue hich involved chiefly the extensor muscles. The tumor-like character of this tissue was so protocureed that only after its radical exterpation and the decovery of the sequestrum was it possible to exclude sarcoma and to make a correct diagnosis

Loan (Z)

Baker C. F Report of an Unusual Foreign Body in the Arm Am J Reenigenel 91 15, 727

The patient, a woman, fell on the fee The accident caused entire loss of function at the ellow and a small wound on the posterior surface of the forearm, just below the joint. The diagnosis made ass traumatic injury of the elbow with possibly a compound fracture or a dislocation. The presence of a fracture was suggested by the projection of a small pacce of bone from the wound. The surgeon in charge stated that he was positive as to the presence of a bone lenors as he had pressed

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PRICEURIN AND DISLOCATIONS

Months of The T restitutions Read for he Reduction of the Delay long of the Ethine Line of the Ethine Line (1997)

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A historia, f. Social of the Proteint Engineer in Executive of the Social of the Engine of Engineers (II) (Reg. pt. 1 of 12 p. Journ 1 or

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SURGERY OF THE BONES JOINTS MUSCLES, TENDONS, ETC

Smeesters, F. Paralysis of the Shoulder Girdle (Paralyse de la centure scapelair.) Inh francelebred & 0.1 XXV 05

The case reported was that of a gri 15 years old be the age of years, had an illness which was defined by temporary paralyses of the rime and legs and permanent part is a and attrophy of the defined muscles and the property paralyses of the property paralyses to be operated to the property of the prop

dipet a stations are tribution.

Although doubt I of the rusult the a thor risked is admonstrated in admonstrated a real-plantation. If I is gated the termina of the pertoration is major placeted the superage tools in selected on, sutured the tendon of the pertoration into or I that of the supranguantous departed the defined from its class reality and symmosis techniques and sustrict sit to the trapezers and resultered the operation by an anterior capacities of by the term it then kept in both experts in detection and

enters lot ton in plaster cast for a weeks. When it is cost removed the patient is able make movements to the form which ere impossible before the operation, but if few days the lusation recurred and it was skent that the hemely head that garus alsoped from the glorid cavity. In months later the inaction as re duced by operation antiproduces followed by a deciding the state of th

Orell, 8.1 A Providents for the Thumb (Line Dimonproduce). Acts here 5 at 9 by 3

I an accident with a saw a man host all the phalaners of the thumb and inder finger and the proximal end of the second metacarpal bone. As h as not suited in the results of the oper tion which was don't remove the contracts in didepone the fold bet een the thumb and indetoner attempt as mide to construct prothes.

The best mat rial for this land of prosthesis i hard rubber. The phall in not the supparties w formed on the pattern of the printing was formed on the pattern of the phalling all portion of the thomb, the next carpier, and the carpial portion of the deformed has do not be supparted by the phalling of the supparted by the printing of the phalling printing of the pr

The phalance al portion of the thumb was attached to the tembalangeal joint of the sem flexed finger Hard rubber is mitable because of its tability ad 1 re-istance t moisture and chemical and thermic influences, and because it may be colored as desired and its surface is not too hard or fragile. A suitable non ductile metal wire was used as connecting joi t bet een the hard rubber phalanx and the cur pus so that motions bet een the carpus and metacarpus might be transferred to the rubber phalanx Th phalangers portion of the thumb of a mule corpse was found t weigh as gm. The thumb prosthern described weighs 51 gm. The free point of the prosthern bears a flexing load of over t kem lule the normal thumb bears flexing load of more tha 5 kgm. The author a thumb prosthesis meets not only the councile but also the i netronal requirements Lorn \tt Et MD

SURCERY OF THE SPINAL COLUMN AND CORD

C ben, 1. A Case of Backward 1 gatton of the beneath Genical Vertebra with Isolated Compression of Serie Root 1. d. local is in in artificial of the compression in law for 1. a. fr. ledge 1. air 77. 17.

In I can there uses of luxuitio of errical ertebra offected in a by Heale ther ctt bo mptoms in eight temporary ers symp-Ect\ tont I t nd persistent partial pa abuses in t case trium as followed by total Caben case traum p I am of the right arm ith intense pain and co noon nd troph of the ight band. Framma t not the pane three month later revealed a de ert beg nd the \1 showed backward luxation of the se enth crucal vert bea. The cerebrospinal ful wa pormal M mual reduction u as attempted thout success Th.

The sepresented in ked motor disensors from 1 the region inners ted by the seventh

and cighth cervical root. For air months following the arcident the parals as decreased spontaneouslibut at the end of this time the improvement ceased. The patient left the hoot fall efusing tipermit an operation 1 liberate the compressed new roots

Frazier C. II., nd Spiller W. G. An Analysis of Fourteen Consecutis Cases of Spinal Cord Turnor teck Versel to Parch 4 18

In the cases reviewed the final diagnosis was not created sheed until in a serage of a years had expeed from the date of the funtil symptom. The time ranged from since months 1 five years. Ten of the putterns are over and four are men. There ages ranged from 18 to 64 years. Ten are bettern by and 59 years of age.

Vir. of the turnors were extramedullary and subdiral, to o ere extradural, one caudal, one in the vertebral column and one pirit spinal and parity intracranial. Six lavel ed the cervical segments. three the super thorack segments, four the lower thoracic segments, and one the camin equina.

In thirteen of the fourteen cases the first as mostom was min In the sengle extention the tumor wa extradural, and never caused puls. I the other cases the pain often occurred intermittently t interval of days or months, and frequently was wome at night or in the early morang I several instances it decreased apprecably take onset of

paralysis.

I ble I inducates the time which clapsed between the onset of pain and the first siess i motor anneirment

TARIF I TIME BETWEEN PAIN AND FIRST SIGNS OF MOTOR IMPAIRUR T

| THE RESIDENCE OF THE PROPERTY OF | | | | | |
|----------------------------------|--------------------|--|--|--|--|
| C== | Denting of puls | Description of the last of the | Internal persons and to pro- | | |
|] [| ilililiii i | priori amenta amenta amenta amenta amenta priori priori amenta a amenta a amenta a amenta a amenta a a amenta a amenta a amenta a a a a a a a a a a a a a a a a a a | Tanks profits profi | | |

In his proof there or more pour had about in two coun two you my many factors our and two years and so there your last than

Pale sweet ted with atrophy in the root distributled of the upper limb should route the suspecion of 1 mer but if the rocatges res exemination ceals no nathologic condition it is usually distable to defer operation tratal clinical evidence of much cation of the cord is noted. Example at the tenden reflexes of the lower limb, on the same side

TABLE IL-DISTURBANCES OF SENS TROS

| - | THE RESERVE TO STREET | | | |
|---------|-----------------------|---------------------|--------------|--|
| | Location | Paracheles | | |
| i | Tak hard C C | ALS: | Talana | |
| - 1 |) (منطحت م | [Name | Laborel | |
| , | Left subsemblem (C | 1 Interest | Adams. | |
| | | Abertal | P Libert | |
| - 1 | | Language of Parties | I married | |
| - 1 | Late Separat 7 7 | (| ariya karraj | |
| | Table and Tex | 2 | | |
| * | Sirts issued T | 17990 | - | |
| - 1 | Party La La | Harrison . | Franci | |
| - 1 | 1227 | - | Beleared. | |

a the rada and atrouby of the upper lead, escenally if associated with the Bableski reflex, is a combition that may fustily early operation

The second symptom is every case was a mi-

lecth a seasory disturbance other than nam The Bros Stauard syndrome in the clinical syndrome of somal tumors is represented as the second of the three cycles, the first berse the mot eycle and the third, naralysis of motor and sensory function. In only in of the authors rates ere there anilateral sensory phenomens, and these

were not of the Brow Monard type Motor dist rhances ere present in grenter or less degree in most cases. T ble Ill shows the motor symptoms the duration of the legion, and the relation of the turnor to the conf.

| TABLE III MOTOR IL MYTOMS | | | | | |
|---------------------------|---------|----------------|-------------------|------------|--|
| Destan | | Laute | ****** | 144 | |
| - | 125 | Territoria | THE R. L. | | |
| , | Reta | breded | - | Section in | |
|) | | lar/slaw) | **** | } | |
| - | - | Frenches | - | 1 | |
|) Term | [min | - | | . | |
| H | Pare . | هنت | | tith | |
| period period | i.e. | (mak) | park. | 1 | |
| - | Zight . | Landerel | - | ! | |
| men.ch | 2 to 1 | Introduction 1 | 7 | 44.5 | |
| - | Left. | | Nonline Spinis | 144.4 | |
| | - | LiterAnni | 1 | | |

of the fourteen cases was there du I only t ability in the upper extremity in seven cases buth lower extremutes were up of cd. and in the remainder only one. The development of motor distribity was in most instances (nane out of fourteen) a matter

of ceks or months. This is in rather minking tontrust t the period of root pains, such eraged two years In other words, ben the tumor had increased sufficiently in size t cause cord comparenon the motor phenomena developed rapally

There ere only five cases with the mathechronis there the levon was present for phenomenon

scats four s are, thereo sears, one year and next months revoctively The Queckenstedt test, the newer test for many block as not tried out in every case. This test is

based upon the effect on the pressure in the lumbar puncture manometer ken compression is made on the raternal pagolar con 1 positive finding by either method should be regurded only as confirme tory evidence of the presence of a twister state negati findings do not preclude the possibility of such lesson ad positry findusts have been noted m cases of lemons other than turoor

In five cases there was difficulty in unnation, and in one, occasional unnary incontinence. In three there was constipation, and m two bowel incon-

tinence In the segmental diagnosis referred pain, sen sory disturbances, muscle atrophy or impairment of muscle po er and disturbed reflexes must be taken

into consideration Table IV gives the relationship between the region to which pun as first referred and the level I the tensor

TABLE IS -- RELATION SHIP BETWEEN RECHON TO WHICH

| PAIN WAS REFERRED AND LEV | EL OF TUMOR |
|---|---------------------------|
| 1900/F OF TAXE all disolder | C C/S Left (C/S Left |
| taght shoulder | خ ور تي يخ |
| Legence shoul terr | ČŠÍT nebu TT seaternor |
| But over angle of scapula Right and left area Assemed chest Back | i i v |
| Faquetrum Right in | THE THE SERVICE CONTRACT |

In one of t instances in which sweating of the face was recorded, a occurred before operati and in the other after operatio

The Babmala reflex as ecorded as present in

leven cases and absent in one

Disturbances in the movement of the disphragm re agaisscant as localizing symptoms. It pipears that the function of the disphragm is not entirely pendent on the phrenic nerves

When there ha been no degenerative changes in the cord, complete restoration of function may be anticipated. In only t o cases was there ab solutely no return of function All f the tumors in this series of cases were

extramedullary and the majority were endotheli omata or fibrorn ta-tumors with definite encapsula tion and limit it in use by the dimensions of the csml

I only one fithe senses was emoval of the growth difficult in this instance the tumor involved both the spinal canal and the posterior foesa. At least t thirds of the growth, firmly fixed fibroma.

to but the foramen m gnum. The patient died I every case the tumor was apoved by removing three or four spinous processes and lamine in only one met ace as it necessary to enlarge the opening The cord m ; be of ted by traction on the dentate ligaments or go if ct acted. There is no difficulty

separating the ord from the tumor or the tumor form the ord. Only fter the put is divided in the line of dem tion clearl defined Occasionally one root either the terior of the posterior may be so incorporated in the tumor that its removal may be describle I four I the cases one posterior oot was sucrificed and in nother an auterior root

The lose adherence of the tumor to the dura makes it advisable to remove that section of the

dura t which the tumor is firmly attached. Hiemor rhage from this area is quite free and can be controlled only by means of muscle grafts. With this exception, the operation is conducted in a bloodless field After the removal of the growth, the dural wound should be closed with a continuous silk suture, and the muscle poneurotic structures, subcutan com tissue, and skin with ther sutures

The history of each of the fourteen cases is given The article contains twenty-one figures

CARL R STEIVER, M D

Elsberg, C. A., and Stooksy B.: The Mechanical Effects of Tumors of the Spinal Cord: Their Influence on Symptomatology and Diagnosis. Arch heurel & Psychiat 9 vin, 50

Elsberg and Stookey group tumors I the spinal cord as follows

All growths on the posterior aspect of the cord, whether in the median line or lateral, but behind the posterior nerve roots, ar classified as posterior growths. Those lying on the lateral aspect of the cord, in front of the posterior roots but behind the dentate heament, are dorsolateral growths. Those which are lateral in front of the dentate ligament but behind the antersor roots, are ventrolateral growths. Those that he on the anterior aspect of the cord, in the median line or mor toward the and but in fro t of the anterior roots, are nterior or ventral growths

In their series of cases 64 per cent of the growths were dorsel or dorsolateral, and 36 per cent were entral or entrolateral

TABLE I -RELATION OF TUMORS TO THE SURFACES OF THE CORD (NOT ENCLODING THOSE BETWEEN THE BOOTS OF THE CAUDA POSTWA

| WOO13 OF | THE CAUDA EQUITAL | |
|--|-------------------|-----------|
| Location | Extraordallary | Estratori |
| Asserter and median Asserter and intend Asserter and intend Asserter and produce Protection and produce Protection and produce Protection and produce Latery and produce Latery and produce Latery and produce Latery or strength the cord | 1 | |
| Total | 41 | |
| | | |

While pain is often absent, ther are very few cases without some type of sensory disturbance as an carly symptom

In cases of ventral and ventrolateral growths subjective parenthesia is very frequent,

Tumors that he on the ventrolateral or done lateral aspect of the cord are much more apt to give an early Brown Sequard type of motor and sensory disturbance than tumors in other locations. If the disease began with root pains, the tumor usually was dorsolateral if, on the other hand, early root pains did not occur but there were early contra lateral parenthesize, the growth usually lay on the centrolateral aspect of the cord

The mobility of the cord at various levels has decided influence on the symptoms and signs of an expanding lenon within the spinal canal

TABLE II SENSORY SYMPTOMS AT COMET

| Frantsins | Etn | | Ξ | Ξ, |
|--|-----|----------|---|----|
| | ī | | | _ |
| First in fact, and the of days have been found to be a construction of most being been found from the construction of the cons | | | | |
| | | | | |
| | | l | | |
| Placing or manifester, but have being price of the party | , | | | } |
| Sentence or begreen, no year origing of stationer, no year My stylen or begreen | | <u>,</u> | | _ |

The reversed Brow Segmand syndrome as noted in six cases oper ted on. This is explained as follows. When the growth has rea bed certain size and before ctual pressure on the cord by the tumor has occurred, the cord has changed its poution and hes against the dura and the bony wall of the case on the sale opposite that of the tumor To disgrams are shown to explain this condition.

I ten of the patients the symptoms and sums of the spinal compression were aggravated first find had been stades in by fumber puncture. Three had extradural growths, nd sax had intradural growths firmly discrent to the dura I one case the record as incomplet. The thora believe that if the symp. tows and same of motor and among disturbance become more marked flet lumbar puncture

Beorgaldson, G. The Employment of Electrical Marheds in the Districula and Progressis of The Employment of Electrical Paralyses Due to Lesions of Peripheral Nerves Auch Reduct & Pleatentherapy 0

The nerve and muscle reactions t electrical attenulation are studied in regard () the form

nd (s) the quantity of the contractions Thrones as to qualitative reactions ha e re marged essentially the same since the trace of Erb. but those regarding the quantitative reactions have changed since the discoveries of Hoors of West and Laracque catablished the measurement of the excitability on bases different from those of the Dohors Reymond has which has been proved erro

pross The Dubous-Reymond law was established on the bests of continuous current (galvanic excitability) Faradic excitability (produced by induced waves) appears to have no relation to this law. The enther strumarizes the findings of experiments made by Dobon-Reywood who excited the from's gratrocnemus muche directly or through the scatte nerve

movel of field, the diagnosis that the growth is extradural or intradural and adherent to the inner surface of that membrane is funtified

The conclusions drawn are summarized as lefter t Tumors on the anterior and auterolaters!

aspects of the spans cord are relatively freezent. constituting about one third of the cauca Although man netweets the evenel cord to

more he so past t the conet the large majority have some subjective sensors disturbance as an carly symptom

3. In some cases observive sensors disturbances are barnt for long period and porer only after

humber numerius a Totaling, coliners burning, and other pares themas are not care is cases of extramenation

5 If the tingboy occurs in the contralateral limb and below the level of the growth, it is probable that the tumor bes on the ventroliteral meet of

6 Intradutal tumors adherent to the dura and extradural are the not infrequently occur the cord t the concerte sale of the stand cases and came

early motor symptoms on the side of the body opposit that of the tumor 2 If the stams of motor and sensory disturbances become aggravated after humber puncture and the shidts all of fluid, it is probable that the growth

as either extradural or intradural and adherent to the major surface of the dural numberance

8 Tenderness of a spanous process t the vet tebral level of the leason posats t bone disease, hile tenderness of scapes well below the vertebral level of the growth points t an introducal extramed

ullary tamor CARL R STEINER M.D.

SURGERY OF THE NERVOUS SYSTEM

The excitation as caused only I the make and break of the current and provided there was ad Scient intensity. During the passage of current of constant intensity no excitation as produced If during the passage of constant current the intensity as suchianly necessared these makes

mattons of intrastly acted respectively as make and break of current and caused excitation. If current was progressively made or broken, the slower the variation of interesty the greater the is tensely that roold be employed. If the sufficiently slow establishment of the current, excitation was no

longer produced hatever the intensity tlanted The other summeries the Revenoed as follow

The excitation is produced exclusively by the variation of intensity and not by the absolute magnitude of the intensity

The variation of intensity is more efficient the more rapid t is the maximum efficiency is realized by the metaptapeous make or break of constant correst

. The time of passage of the current and consequently the quantity of electricity and energy

ha e no ole in the process of excitation The structed muscles of vertebrates, which ha

contraction of short duration, are called susicles sules Smooth muscles of vertebrates and voluntan muscles of certain in ertebrates such as mol luses or crustaceans, which have contractions of long duration, are called muscles leater. Fick found th t progressry mak or break may be made much more slowly yet with efficiency on muscles lexies than on muscles rapides. Hi found also that for short time intervals in muscles lexies and muscles repairs the intensity giving the threshold depends on the time of passage of the current, but that the time limit beyond which the la of Dubon Reymond m eract is much shorter in the musicier suiter than in the musicier lenter. Hoorweg studied and dis proved the law of Dubous Reymond : man by the

and of condenser discharges

Rena pared constant current and rectangular a es of ery short duration obtained by means of pestol hose ball, flying at known velocity cut t o wires in succession. The duration of the current depends on the distance between the towares and the elects of the ball. When the resistance is constant, the intensity is proportional to the voltage Wese showed that ben the duration of the current is increased the intensity which gives the threshold diminishes to a minimum intensity. buch remains the same although the duration of the passage of the current continues to increase. The relations of integraty and quantity of lectmosty together with the current's passage time constitut the law of Тере

Excitability cannot be characterized by the recor-

tion of the gal anic threshold alone

Hours or showed 1th condensors that in man the oltage necessary to obtain the threshold diminishes to minimum alue as greater capacities are employed, and the minimum value then remains constant whatever the capacity. This law of Hoor

eg a applicable only to condensers.
The chroname of Lapscone is the time of passage of current buch is constant for given orga and characterizes its excitabilit. The rheobese of I apacque as the intensit necessary t obtain the threshold of the contraction with make of prolonged current (classic gulvanic threshhold) broname is the time of passage of current necessary

t obtain the threshold of contraction ith an tennty double the rheobase T Look the chromane it is sufficient to find ith Ley the threshold of make of galvanic current, ad then t double the corresponding oltage and to find the ture of passage of the current necessary to obtain the threshold with the oltage double that of the rheologie. If the discharge of condensers is employed the chroname is the capacity buch hen the cur rent has consta i resistance, gives the threshold ith the oltage double that which has go en the threshold 1th the galvanic current

On the base of a study of chronaxie in animals, Lapleque formulated the following laws of general physiology

The chronarie characterizes the excitability and, with the exception of temperature does not

vary with experimental conditions

A muscle and its motor nerv ha e the same chronause thus is the law of isochronism of motor perce and muscle

When the chropaxie of one of two organs varies alone there is inexcitability by the nerve when the ratio of the serve and the muscle passes 2 C rare modules the chroname of the muscle without chang me that of the ner. Strechnine causes the chron ane of the nerve to vary a thout modifying that of the muscle

Chronague classifies the muscles of different ammals as the duration of their contraction classihes them, but with more precision. While the form of the contraction depends on the physicochemical tat of the muscular fiber resulting from the histologic structure of that fiber and from the physio logical conditions in hich it is found (cold, latigue, et) the amplitude of the contraction depends exclusively on the number of fibers it is therefore comprehensible that the chroname varies directly with the form of the contraction, while it is fairly independent of the amplitude. The chroname varies with the duration of the construction it changes directly as the latent period and in eriely as the thethm of the tetames Examples f Lapicque a classification of muscles

by chronavie re as follow

| X== | Cicronaxu | contraction her |
|--|-----------|--------------------|
| Cantro Common of the common total Huntre of the same foot Huntre of the same Harry of the total | = | - |
| Chew of the crab beamach of the free | 9000 | No 34 |

The uthor m es description with diagrams and illustrations of the technique for the measurement of the excitability by the chroname of Lapicque By this technique the determination may be made in man or animals with the same precision as in the nerve or muscle laid bare and separated from the and a suppose HUTTEL B ELET UD

Stopford, J. S. B. Re-suture of Peripheral Nervas. Bril J Sart 9 x, 6

Thus a bject as of greatest importance in connection with the plant or methan nerves I the case of the musculosperal nerve or the ecuatic nerv

alternative orthopedic measures offer such good functional results that re suture is rarely necessary Stopford observed fourteen cases during a period of five years. These were as follows median nerve. ninar nerve seven musculosparal nerve one

external populeal nerve one Several amportant factors betring upon the

PARTICIPATE BYTE

IABLE CIVING RESULTS OF RESUTURE IN FOURTLEN CASES

PRT Years her reall inner FAD. Flower medican dicharam, FPD. Flower probabile of general.

1.2.7 These longua probabile FCU. These respirators, AND. Address manual desirabilities.

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The terval but een the time the i jury as reces ed and the dat of the re twee The cause of failure after the orner al enture

Poor by ting The effect of third section of the perse trunk

upon the c lls of the auterior corns and posterior root gangbon

The conclusions drawn by the author are follow.

Under (orable conditions, regeneration ata) occur after the resource of a peripheral nerv

The end results after successful re-s ture at samula 1 those observed after successful accordars

suture 1. The causes of failure seem t be the same as in second t) snture - ith the addition of () greater

d thurbance of the intraneural anatomy by the further resection () the effect of third mjury t the nery fibers upon the cells in the autorior corn

and preterior gazelia 4 Furduciase complications resetur is contra indicated () hen more than three care but clapsed space the time of the mijury to the nets

() when extens untraneural abroses we ca

countered t the first operation

t. The superfect ecovery of function and serve tion, bich is limost invariable after secondary enture or e-suture even under the most I vorshie currentinces is due biefly t () distribute of the raternal nations of the ners tru k () the

de lorement of transport filtrous LAIR THIN MID

MISCELLANEOUS

BLOOD AND LYMPH VESSELS

DeGestane, L. The Etiopathogenesis, Pathologic Anatomy Physiopathology and Surgical Treatment of True Anaurisms (Euo-patogenesis, azatomo-pathologica, fino-pathologia cura chirur poule degli ancarismi ven). Assa stal d' chir 022 4 591

The method of high bration should be eserved for cases in a bigh better methods are not applicable I high beation of the artery it is well to the the

vem also

Up to the present time the method which has been most successful is the removal of the ancuramal mc This procedure gives the best assurance against the development of peripheral gangrene and the persistence or ecurrence of local pain

Increson of the sac with ligation of the artery shove and below before and after the mession should be resorted to only in the rare cases in which dis-

section of the sac is impossible.

Lateral suture is indicated after the removal of the sac only if the arterial a lla pear the orifice of communication are sufficiently normal to insure adequate regeneration of the ascular sheath

Surgeons experienced in vascular surgery have been obliged to abandon obliterative endo-aneuramorraphy because of the difficulty in mobilizing the need thickened walls of the sac for uture

The use of arterial or venous transplants, which is indicated more definitely in cases of false transmatic and arterior enous ancurams, might be attempted

but requires great technical skill

the present state of our knowledge the surgical treatment of aneurisms should be standardized became it comes thin the scope of every surgeon All surgeons should be proficient in high heatio the removal of the sac, and removal of the sac followed by lateral suture

The future will show if the restorative and reconstructive aneutramorrhaphy of Matas and ar term) and venous grafts offer unquestioned advan-

tages over high bigation and exterpation of the sac Contrary to the general belief injuries are not the most frequent causes of aneurasus. For aneurecase dilatation some inflammatory process is necessary. Weakness of the arterial wall may be of mechanical or inflammatory origin but as rule both factors are responsible W A BRIDGER.

Silbert, S. A New Method for the Treatment of Thrombo-Angilitis Obliterens J 4m H 4m lune, 765

The fibrous scar tassue surrounding the blood essels in thrombo angutis obliterans protates the nerves or causes secondary nerv degeneration In the lower extremity the nerves he beside the blood essels only below the knee. The femoral essels do not come int contact with the scialic nerve

The arrows therapeutic measures for the relief of the pain of thrombo anguts obliterams include physical procedures to improve the circulation, such as baking. Buer's hyperzemia, and exercise and surgical procedures such as arteriovenous anastomors, ligation of the femoral vein, and the periascular sympathectomy of Lenche Since the sympathetic supply of the large vessels of the lower extremity comes of from the adjacent nerves at various levels along the course of the vessels there a some doubt as to the value of perivascular sympa thectomy Favorable results from prolonged intra enous administration of sodium citrate have been reported Meyer advocates flushing with 8 to 10 liters of Ringer's solution through a duodenal tube and supplementure this with several daily subentaneous injections and a diabetic diet. A a last resort amoutation has been done to reheve the pain

The they advocates the injection of absolute slooked into the nerve, as far toward the periphery as possible and reports three cases of thromboangutes which were temporarily reheved by such

petion of the posterior tibul nerve at the level of the internal malleolus. When an infection into the ankle fails t give relief one or both main nerves should be injected higher perhaps at the lower level of the populated space. I order to prevent paraly as of th large calf muscles it is important to choose level below the distribution of their nerves

Under aseptic conditions primary union will take place in the incised, poorly nourshed tosues of the ankle Before t manyected with the alcohol the nerve as exposed and anasthetized with procume Paral yes of the estrussic muscles of the foot is a minor consideration

The author has treated five patients by the method described. One of these cases was not suitable as extensive gangrene made amputation necessary. In another pain in the little finger was not reheved by an injection of the ulner serve in the hand, bemr due andoubtedly to involvement of the perve provinal to this point. Three patients have been relacted of pain in the foot for more than my months as the result of injection of the posterior nerve t the ankle

The author does not claim that the treatment described will cure the disease but recommends t as an efficient palhative measure

WALTER C BORRET M D

INDUSTRIAL SURGERY

Coun, H. R. The Acute Painful Back Among In dustrial Employees Alleging Compensable Inpury I A= M An or liner

Many persons erroneously yet innocently attra bute non-traumatic backache to a traumatic cause because of popular opinion associating the tuBecame hackache gl es no external semotoms nuticot his apriets t peer us existence a apt t extererate and clum symptom not present. Thus per chological apprehension disappears if he is assured of the surgeon behal in the present of

the combined

The thor his reviewed series of 56 uses from industrial hospital. I ga per cent the print was located in the lower back, below the level of the tenth durial ettebr. Certa cases ere frank Is t umatic hile others ere learl non-trau male. In a third group the conditions might h due to ther trausable or non-traum tie rauses. Some of the trusmatic cases may have had knes also a factor The bon trasin the cases illustrate the necessity for complet

of scaleramin from I potent al group consust of cases the post rail or structural deformation predispersion t symptoms in the event of trauma. This group composed of persons with hypernoobility ymmetrical km tation of motion, or rigid immobility. In some instruces the posture may indicat the defect. The p tient m) give no bistory of trauma, but ma t t th t be changed his occupation frequently to only bea y ork. When once the assertion of tra man has been established the path. I usually remuns conspecuable and of thereps at dragnoss. The author my a good outline of routine examina.

tion for use in discension work

Secre that relaxation is infrequent and usually benught on by suckles stra on und fured back Surolambar lesions are intrinsic of trinsic The former a the more severe. There is usuall muscle marm but is nationed to 1 Author th example and orders Water H House, M.D.

LEGAL MEDICINE

M. Spructice I. Treatment of Frecture. Il erner fm (VD) BVD p 1

I play serus was employed t reduce. Inseture of th arm Thoro-copic examplation showed that the in a broken dragonally several inches below the Ibox

On account of the welling the fracture was placed to alian and other first and tre tment was given Later attempts ere made to reduce the fracture by managulation. I be day after the accident the of intill was taken to a bospital where an operation a to performed, the tasset of the foreum ere sep arat d, the broken bone was placed in position and ful med theher are and the arm put in plast nd When the cast remo ed h week later the elbon as stiff and up t the time of the trial कबर शंधी गामचे

The Court held the evidence as subcient t support progress for the patient. The physicia complained that the und of \$1,000 are excess but in a of the curcumst new the Court held t as not so I rge as I indicate private or prejudice ad therefore farmed I Ritt w I Mount Payment of Surgioon Withheld Because of Alleged Malpractice Hashell st Hanson (Was) If Y B p 1007

Hanson's lodes fings on his left hand was cut by a saw Dr Haskell amoutated the facer and dressed the stump. The stump be led but remanded painful Anothe operation as then performed The ound healed properly and the put I did not ret ru for treatment

When the p tient fided t pay his fall by the end of bout fi years Haskell brought aut for the mount due. If uson sought to didend on the ground of malpractice producing medical testimony th t the sensity condition as caused by the end of serve or bon projection in the stamp of the finger bich could probably be remedied by an amout tion high. p However no one traubed that the ph secian had failed to operat skillfully or that the actualty encus resulted from imprope medical or surgical treatment. On the continuous at ingreed that such seasonrenes is not unusual that nother ampail tion ould not certainly remedy the condition

The Court discovered nothing to show that the ph sxian failed t exercise due skill and diligence nd awarded ham the full mount sued for

MILLY F MOONE

Suit for Daninges for Alleged F Bure to Remove Placent Armeer is he other It (M on) 1 # p- 314

The defunds took sacus up thus the was called tiend ones threatened th mecernary Is the patient as the seven miles from her home he ea the necessary treatment and took her to her home Three eck later four months old fetus deli red the ph sausa being called fir hours aftern rd. With regard to the subsequent some depot. The ph satisfi tours. facts there trained that he as told that the placeat had been expelled and had bee three but this as contradated by the one husband it aroom times during the ne t ten d the phractan an told by the husband and has at that she had severe kemorrhages hills and beadache nd on each in ed blue eds tadt austraen, og ed noarcoo us fee da Her padition then became larm mg and m he as t other ph secures were called he cancel the patient to be removed to bo-pital I the hospital de unaposed parts of the placents are removed. The pite i then me proved but died sisteen da. Int

The made all sports called a testal defication I have for the ph sicus timbuted the di th to embolism. It is the others stributed til septi emia due t the present of parts of the placents in the terms. The critical of the party as in the of the dimmetrator of the commit est t

The planets contracked that Mrs. Kraeger dad not obey his instructions that Ithough he told her t to in bid du my the early treatme to she traded t be household dut. There is no

evidence however that this was responsible for the

The Court held that the jury could assume that the latements made to the physican regarding hemorrhages, childs, and beadache called for treat scart or action on has part, and that there was sufficient conduct of evidence as to whether the physican have the placents had not been expelled for the jury 1 determine where the truth lay. The conceded cause of the hemorrhages which permitted so long, there the macurities whether the production of the production of

Suit for Damages for the Alleged Leaving of Gauss in the Wound Pers is Certer (II) 35 \ || p 68

When the plaintiff was 17 years old ah was operated on for appendicuss by the defendant plays rank. Tw. mouths later he opened the wound t discover why it did not heal property. Soon (ter

ard the plantiff went thousand and remained five cets, but the cound did not beal until several months later About three years later she was troubled with pain in her foot and after consulting the defendant tee, went to nother physician loss treatment cruzed the disapprearance of the

pain within a few weeks. Subsequently the patient inlanted and a few months thereafter consulted another physician, complaining of severe pain in the abdome. Later she consulted the defendant regarding this pain and be performed an operation Subsequently another physician and the patients mother each removed two small pieces of gause from the wound. Sur months later another peece of gause and a thick posty material less than 2 in long were removed. The wound then headed properly

The defendant testified th t the gause spo gowere counted before and after the operation

The Court held that the operation was performed by the most approved method mines the ordence established that the sproved method mines the ordence established that the sproved method method that accurate count was made and from ther evidence the Court was convinced that the kind of gause taken from the patients body was not that used it the hoopital at the time of the operation. The plaintiff was a hystere, and it is a recognized fact that persons of this type is manapolisted wounds and placed substanges therein

At least th plu till failed to prov by credible evidence that the defendant was responsible for the presence of the gause later removed pludgment for the physician was therefore affirmed

n coll i ralling

GYNECOLOGY

UTERUS

Cutten, T. 5. The Lar of butture as Tractors in the Varinal Operation for Prolapses: Jm J (* 1 to Grant) 111

The thor were through cut put and ces strateon to the v. of 1 open those proof peer. These utares are of the figure-of-right type and are placed in the holy of the stress of time the view owners to the body of the stress of th

The article | well fit strated | L. Owers 1, M.1

Nyulary A. J. Restauration of the Round Ligament. In Retractules of the Uterus. Mol. I

I whate egg if f f.

I whose uption the asteries personeum paradicle the the roo. I kgoment and a little toward the bladder felt workermores the religies and lowes the opening with powers g soft or. The outer hand the universe in the universe feet in the trained add outside many fine and the desert her's kear that uterned out. This world is that the two discussions of the contraction of the

well it is number of c. see. the ety grout results R. P. Chinne, M.D. Hingsins, R.R. Fre-Charerway Conditions of the Lerviz Lyrit. 1st J. O're to Cyme. 9. by 16.

I most qued to be called an aker a term under tage less of trose but as in rathi there is no crase of trose in the condition, it should be described a a sessule adenom. The mail port in of the critic is normally covered with miny. I end a segamous epithelium sometiments he epithelium soud feel, between excluded and in fact the thomast epithelium soud feel, between excluded and in fact the chemical plantable epithelium has have the pr

a and the body of the term and con t of sage layer of tail cell. These cell are continuous with the glands of the cervar both a numerous and lined in sage layer of coloniary cells how. The glands of the cervit are more coupled careful ad larger that the gland of it atterns fact, the cervar is lessed of glands of the grade again, the facility of the cells of the properties of the cells of the cells of the lar cyticle one lines grade the cells of the tail pathology of crossons he of interest.

The red put b high is no typical is due to an overgrowth and b pertruphs of the columnate of halos the cracal canal ble spread over and seen through the equation of atheleum normally concrete the vaginal portion of the certiff It is used, nor In destruction of those but by the replacement of deep er lumaar ells over wider arra than normal The bright red cober I due to the fact that it mer affects the bright color of the underhang blood ressel I show the ough II return to the normal occurs it owes from the removal of the surface by the normal squamous. If of the again mecons membrane. When the happen the sleep relief and ular in the become burn and covered over There I al function being to secret. The formation of cost he sub-endaged. All ses of small among cast my or up the surfac of crowns at the took dondr lat the towns of the conm ked tradernes so often boted in the condition

m her tenderness so eften hoted in this condition oder ten tid "mustery change. The presence of yet relatives throughout the ers is common but their extent in often sed appreciated until 1 is preciated by amputation on no

ADNEXAL AND PERI-DTERINE CONDITIONS

Sampson, J. S. The 1st listery of Oracles
Harmatomata (Harmathagic Cyst. of Endometrial Stuellerian Type. to J. Did &
(196-16)

N 11 knows oma of the terror the p this for onlition aroung from the replantation of systelean in the escapes from the fallogan takes site the perturned. It are probably the most common pelvic leasons found in omen het een the ager of the same found is omen het een the ager of so and the encapture. Demay the last car a hardsever cases of each leasons, are found to the future of the same of the same of the same monotonic transparent of the port of age. If the epithelmon excepting from the rabe fall, on sprinks takes to the loop with global or tobules of sites unjet of the loop with global or tobules of sites meetral (muclieram); pe his present reset to meetrat (no Chew and Gonnata were mushly found meetrat (no Chew and Gonnata were mushly found on the structures which are most frequently in close contact 1th the funbruited ends of the tubes, such as the lateral and under surfaces of the ovaries and the eritoreal surface of the structures in the cul de-eac implantation adenomata may occur only on the sur face of the ovary or ovanes, both in the ovaries and on the pelvic peritoneum, or on the pelvic peritoneum

The primary peritoneal implantations are usually small and insignificant but may spread and become

INVESTVE

The morlantations on the overy in ade the tissues of that organ and, as a result of their reaction to menstruction, develop into superficial or deep hematomata (hemorrh goc or menstruatung cyata) of endometral (muellerian) t pe The casting of of all of their epithelial lining by menstruation may cause their destruction before perforation occurs, but most of them repture or perforate into the peritonesl cay ty Perforation occurs in the superficial overan hematomete while they ar still small, s few millimeters in diameter and as the result of menstruction and perforation the entire epithelial house may be cast off and the harmorrhanc cost may drasppear

The hematomata developing in the deeper trissies of the overy may attam a large size, several centimeters in diameter, before perforation occurs. As the menstrual blood is retained in the cavity of the hemorrhagic cyst and in the stroms of its lining for

long time, many interesting histologic changes occur in the wall of the cyst in the ttempt to absorb the menstrual blood and to reline the demoded sur faces by epathelium from that which had not been removed by menstruation. The development and activities of the endothelial leucocytes, which act as sea engers, play an important part in the absorp-tion of the menstrual blood and the deposit of page ment derived from this blood in the walls of the hernatoms. Perforation permits the contents of the hematomata to escape into the peritoneal co

ty and temporarily cheves the embarrassment camed by its retention. The perforation is scaled by the adherence of the overy or cyst to adj cent structures. The harmatoma again fills up a th blood

t its reaction to menstruation, and repeated per forations may occur. As the reaction to mensious tion is destructive, and as the repeat and regen eration of the epithetal lining is accomplished under great difficulties because of the retention of the menstrual blood the ultimate tendency of the hemorrhagic cyst is retrogression

I its reaction t menstruction portions of the epstheiral imang are cast off ato the cavity of the bematoma, and therefore may be found lying free in its hemorrhagic contents. Adenomata of the endometrial type may be on the surface of the overy bout the perforation and in the tissue of the struc-

tures adherent and adjacent to it as well as in situ tions where the material escaping through the perforation lodges. This indicates that these adeaomat m y be derived from the implantation of

epithelium cast off by menstruation into the cavity of the harmatoms and escaping through the perfora tion Implantations may arise from small as well as from large ovarian hematomata, generally the larger the hematoms and apparently the larger the perforation, the wider the distribution of the im plantations These secondary implantations often resemble normal endometrum more closely than the enthelial liming of the original ovarian hema toma and are often more invasi e and more closely resemble normal endometrium than the implan tations found in the pel is without evidence of an oversan hematoma with perforation, i those resulting from a primary implantation from or through the tube For these reasons the belie is that in the development of pelvic implan tation adenomats of endometrial type the vary is an incubator or intermediary boat which a some in tances may possibly unpart greater irulence t th enathehum developing in it. However, t is not an executal intermediary hoat in the origin of all implantation adecomata of endometrial (muellerian)

It is possible the t primary ovarian and peritoneal molantations (those developing from epithelium escapeng from the fallopian tube) arise from both tubal and utering epithehum. This was suggested by the specimens studied by the a thor Histologic ally these implantations may be divided into three groups. The first are those consusting of glands or tubules and dilated tubules which often are lined by ciliated epithelium and are without the character nate strome of normal endometrium, or show strome poorly developed. The structure resembles that of the mucosa of a primary adenomyoma of the tube and trongly suggests that the implantations infeht been derived from the epithelmm of the fallo-

pain tube. I the second group the adenomata consist of stroma and glands similar to those of normal endometrium. The hutologic picture strongly sug rests that these were derived from uterme epithe num escaping through the lumen of the fallonia from menstruction with a back flow into the perstonest cavity or from portions of tubal mucosa hich had reacted to menstruction. In the third group the picture suggests mixture of ade nomata of tubal and uterme type or represents transitional stages from one to the other

The epithelium of the overnan hierastomata or hamorrhagic tysts may also suggest either a tubul

or uterme orana

cases with implantation adenomat in the pelvis associated with an ovarian hiematoms abox ing evidence of perforation both primary implan tations from or through the fallopsen tubes and secondary implantations from the oversan hama toma may be present, but the latter probably pre dominateus a rule

It is difficult t determine the factors hich favor the implantation and growth of tubal and utenne epathelium on the surface of the overy and on the perstoneum. As implantations result from the per

forstone of the orarina hazastoms containing sees stread blood, this may be a important agent in socializing the development of three impostantializations. Therefore necessitations used to be performed only may be an important contraintory factor only may be an important contraintory factor only may be an important contraintory factor in reinflations of the storag, federal patients are irrequestly found in patients all reinflations of the storag, federal posterior of the storage federal pos

The reaction of the lining of oversin hematomata of endometrial type to menstruation, pregnancy (one case) and old age (t. cases) as smiler to

that of the terme macon

The author believes that the implantation adenomata in the overy derived from twird and sternes repathelium are the source of many or areas cysts and carcatomata and is convinced that two of the latter in the cares studied arose from this source.

E L Corvett, M D

House M R. holid Carcinoms of the Orace 1

Sirg to brus, 166

Taket, seen cases of solid tarrations of a cases of solid tarration of the same territorial terms of the same territorial terms of malignant tomors of the owner at the Mayo Clark bettern Janeary, o and August 1971. These tumors were solid through evit or contained only relatively small cysts designed to an annersial or retration. All cases of beings or malignant owners of territorial cases of beings or malignant owners of the owners, and of the extraction of times of the owners owners of the owners of the owners owners of the owners owners of the owners of the owners owners of the owners owne

The most common symptoms ere pain, tumor sector, loss of eight and strength, anoresia, od bladder and rectal disturbances. Pain Inch as present in thirty cases, varied in type ad locatio As a rule it was located us the lower abdomen and pelvas, but occusionally occurred the humber or secral region of the back and reducted don, the gross It as usually described as a constant dull ache or a bearing dos, or dragging sensation Occasionally it was sharp and acretic because of twisting of the pedicle t then resembled the cols. doe t renal or unteral raiculos Twenty to of the nationts had I more I twenty cases the I mor as discovered by the patient herself in seven t was discovered by the family physician and a ten t was not discovered until the time of examination at the Chase The general health of thirty five of the patients as below normal or very poor light

teta had loss of eight ranging from 5 to 10 fbs Frequency burning painful amention with pain pain and personne are the most common symptoms.

Fin sical custaination usually re-cated the inner in the pelvin Often it extracted about the true in a little at almost liked the entire abdorses. Fin too is such closes may be due to actimose of the grown in the three wall or adjected vincers, as in affainmatory addresses. The blood private place varying degrees of secondary a virus as in cultinative in other parts of the body.

The climical diagnosis of solid carrangess of the oversy at march endoded beforety. As a rule the sergroun most all for the pathologist diagnosis. The differential diagnosis includes the consideration of benign and makignant on arisin cysts, waruse flormata and demonds, fabruntate of the uterus retroportioned tumors, and timors of a deplaced pertinents.

Lidon Exploratory operation should be offered to all patients, even ben there is ascites, unless metatass can be definitely demonstrated. Paleston of an cal reed module liver calarged kerd inguisel of neiver chands or extension at a reducation of the broad ligaments othertes condition such cases be released by operation. Roomigenograms of the best and pelvic boses make at possible to detect metastasis i these regions When metastases are present reducts and the receivers ray may been porarsh rehere the past and miffernes and prolons lif for short time Periodic abdorainel parares tests may be necessary on account of the rest cumulation of find I cases mutable for surer) postoperative applications of radium is the ages and rectum and applications of the roestern to to the belomen and back are of value if recurrence as feared became t as ampossible to remove all at the malernant time. When recorrence takes place. radium nd the rocatges ray are of bitle size

com as pulleture measures The prognosa of solid carcinoma of the evaner a comparatively poor Formerly this tumor was beheved t he relatively beaugn, but recent men as andreated agree that t is more malignant tha by previous reports. Of the patients, hose cases are reviewed in this article oul three ere living and ell after the five your period the kentla of time since the operation being five nd one half 441 nd one half and me years respectively ere living and ell after three years, in after t years, t o after registers months and to after ten months St princets ded when er mouths, pure thus out your and four these 1 YEAR

OBSTETRICS

PREGNANCY AND ITS COMPLICATIONS

Norma, C. C and Murphy D P Pregnancy in th T berculous with the Report of 166 Cares. 1st J Obbet & Grance of 17 507

> thors the

The conclusions dra n by the

brais of the 166 cases reviewed are as follows The combination of pregnancy ad pulmonary tuberculous is common

2 Pulmonary tuberculous exerts little or no m

former against conception

3 Pulmonary tuberculosis exerts but little infinence on the course of pregnancy and except in the advanced stages exerts little or no influence toward campag abortion miscarriage or premature

4 About 20 or 30 per cent of causes of mailed quiescent pulmonary tuberculosis and 70 to 90 per cent of more advanced cases exhibit exacerbations

during pregnancy or the puerperrum

5 Marriage is orse for the tuberculous woman

than for the tuberculous man because of the dangers racident to preparacy

6 Unless the pulmonary lessons has a been quies cent for moderately long period th tuberculous woman should not marry

7 Tuberculous omen should not become preg nant unless the duease is in the first stage and has been geneaceat for a minimum period of t years

8 It is as yet impossible to determine a th cer tunty which case will bear the added strain of pregnancy ell and high will not Moderately extenso lessons, extension, especially to the larynx loss of eacht, fever hemoethage, sweats, lack of vigor and mability to obtain proper treatment are untawarable

9 Prior to the fifth month of pregnancy the ateros should be emptied if there is any indica tion that the disease is becoming active. Curettage during the first six or eight weeks, and in the later cases vaganal hysterotomy are the methods of choice It must be remembered, however that abortion can be induced without the induction of general angesthesia and that the necessity for the use of a general anesthetic in vaginal hysterotomy ma out eigh the advantages of the procedure

About 65 to 70 per cent of sustable cases will be benefited by this treatment provided it is employed as soon as acute symptoms arme and proper after treatment is instituted. Late intervention, week or more after the onset of the exacerba

tion, has green less satisfactory results

Sternization is not justifiable as toutine procedure Furthermore, as routine procedure t is not advarable as in many cases t will be more expenses t empty the uterus a thout the one of an

angesthetic. Apart from the dangers of a general anasthetic stenlization prolongs the operation and generally adds t is gravity. If the patient's con dition is poor it is useless and if she improves, as a result of the emptying of the uterus, t is better t perform the sterilization t later date when she is in better cond tion

11 After the fifth month of pregnancy it is generally advasable to treat expects thy should be made as easy as possible. The induction of labor two weeks before term may be dynable rarely if ever should the patient be allowed to go beyond term During labor the use of forceps or verseo is often indicated

3 Infants should not be Boxed to nurse from tuberculous mothers, and should be especially guard

ed from infection

14 Hygienic and dietary treatment should be employed at all times. The patient should be kept under close observation and examined by netent internst at regular and frequent intervals

3 In the great majority of cases, even in those in which the symptoms are first observed during pregnancy the tuberculous preceded the pregnancy E L COPTEL M D

LABOR AND ITS COMPLICATIONS

Heckell, C. C., and Rucker M. P. The Action of Engot and Solution of Hypophysia on the Uterus Ass J. Obel & Greec 9 tv 60\$

From the findings of experiments it seems fairly safe t coerciode that patritary sol tion affects the uteros of the cat and the dog more powerfully than ergot and is more apt t cause either tetanus or an increase in tone which is similar in its effect o untra utenne pressure. Therefore in the carly stages of labor t is more dangerous than ergot

In no climical case did the rase of ergot ellent tetanic contractions of the uterus - the first stage of labor. This is at such variance with expectations based on clinical experience that the authors are loss to interpret their results. At first they were included to essume that the drugs used were mert but the was disproved by testing them upon annuals and by the fact that the results obtained with ther lots of ergot were practically the sam They therefore conclude that there is a great deal of variation in the response of human aters to ergot and patentary solution and that the disastrous results sometimes following the use of these drues occur in cases in which the uterus is particularly scoutive to their effects. The thors have found such uters in their work with animals. A certain number of cases may be attributed to the sensitization of the uterus by repeated doses of ergot as noted by Edmunds and Hale. The authors have seen no such phenomenon in clusted cases but in the laboratory have noticed a marked variation in the response of the same uterus to ersot.

Next t the ease and proappases it which a tename contraction of the sterms as chaired by patalizar, solution, the snoot interesting features of the action of this dury is the variation in the latest period. It has often been acted clinically that the effect of the solutions is the soor prompt of energatic the closer the patient is to term. This has been home out by the suffices observations. When

seen norm out by the authors observations. When I was accessary to indoor labor in the seventh month the latent period was four minutes, while at mounts elapsed after the injection of the solution before treytone was noted, while after the delivery of the placents the latent period was eight minutes

The thors conclusions are as follows:
It can be readily demonstrated by anumal experimentation that the action of ergot and partitizing
solution upon the terms is the same of the doses of

ergot used are sufficiently large. The across of plustary preparations as much more powerful than that of ergot. This is readily show both by experiments upon animals and observations in choical cases.

3 It is common choical finding and abundantly proved by laboratory experiments that the action of both drugs varies greatly in different persons. E. L. Couvers, M.D.

Kommak, G. W. Intra Uterine Repture of Teleinstrume Umballent Cord. Am J. Obs. b. Greec. gzz., d. s.

A primipars in the righth month of pregnancy had gone through a mild degree of tournis of the peptritic type which had responded favorably to treat ment. The placents presented infarct formation

high understiedly led to its separation. The administration of castor oil as probably contribu tory factor II the separation of the placenta there as laceration of portion of the velementaria cord It is probable that the sudden gush of blood came from the placents as there was mentionent dilatation of the cervix and no evidence of placental separation at the lower pole t account for a humor rhage of this seventy. A fact of interest is that the patient did not experience the pain usually associated 1th premature separation of the placents The baby died from asphysia due to the intra uterine hemorrage from the cord. The velamentous cord as inserted t the upper pole of the placents, hereas in most of the reported cases that anomaly a sa present in the region of the cervix and repriese occurred as the crevix delated. The patient made an uneventful recovery after conscious section The wound healed by primary union and there was no shock. Subsequent examination of the arms da closed nothing abnormal

The frequent association of velamentous cord insertion with placents previs should be berse in mind. Irregular bleeding it the end of the first stage of above should lead us to suspect this condition of lateral placemts was believed to be present and was not found on careful examination, especially lea the presenting part is well entired.

With regard to the treatment the author states that when the accident occurs in prempare and a sensonated with such a severe hemorrhage as in the case reported, due t another case, cenares are ton as the method of those

E L CONTELL VID

PURPERIUM AND ITS COMPLICATIONS

Piper E. B. The Treatment of Peerperal Repair by the Use of Mercurochrone I travescoutly, Was Repair of Asicosal Experimentation in Chemical Distriction of the Blood. As J. Ober Orace. 421. 41.

A 1 per cent solution of mercuroclamens as neepared with sterile distribed water. As it has been shown by other suvestigations, which the author expenses comporates, that the drug from loses to strength, it is siways freshly prepared just before if it to be used and put up in jo-to so-c im ampoles The solution should never be employed makes t a absolutely clear It is myected very slowly by means of fine needle and large stronge at temperature as hear 100 degrees F as possible. Formerly the patient was go en doss of magneseum sulphate at the end of t ely hours, but this is no losger dose as it appears to eleminate the drug before it has change to enert its germondal effect. Heat is applied externally for the chill, and beautith mixture is given as an intestinal security to overcome the distribute if I continues long A careful record of the ex-cretion of urine is kept. The administration of the mercurochrome may be repeated but a sever done as long as there is any sign of dye m the arms of ferces. As many as are doses hav been given Occursionally salivation occurs

The tracture following the intervenous styretime of mercurochemos a managones it hat observed for the introductions of servine, bacteria, or sterile soil, is smiles rosts and can probably be explained in the same way. Some of the action of their soil of the action of their soil of the action of their soil of

The conclusions drawn by the other are at

There are certain cases of prospersal septements so (ulminating and varident that no treatment can save life.

The use of antistreptococcus serum has appeared to be of great value in some cases. Frequently repeated small blood transfusions and certain methods of intravenous medication are of benefit 3 A solution of mercurochrome given intravenous-

ly in the proper dosage appears, in some cases, to be of great size and to ha no deleterous effects
4. Puerperal septicemia is so serious that heroic menures are justified.
E. L. Cowenia, M.D.

Bractt H: The Surgical Treatment of Puerporal Gas Bacillus infection of the Unarus Physometra (Betrisege or kennins and sur chrunglschen Behandlung der puerporalen Gastrandied, too des Uterus Physometra) Arch f Gyssek

The pathologic anatomy and the clinical aspect of gas bacillus infection of the uterus are described in detail on the basis of aix cases. Frankel's bacillure demonstrated as the excitants in every instance Remon 1 of the uterus resulted in a cure in only one

The typical clinical pacture of general gas bacoline infection in pronounced feteres was present in only one case. In three cases acterns as a entirely absent in the beginning, but appeared in the subsequent course of the disease. In one case the gas bacolin ere not demonstrated in the blood until just before death. I many cases the unnary findings are of great importance in the disaproses. In very severe cases the enne in almost black and his meaning that the consistency of variable. If may also contain gas bacolin. The rosts of chaesemantion of the gas based in as almost exchangely along the lymph changel.

The prognosis of surgical treatment in cases of purposed pasculate infection may be considered as relatively favorable if general infection does not result. In gas bacillus personal infection the results of declarge are not entirely unfoverable, but in general gas bacillus infection without symptoms of peritonitis operative interference in smally fettle.

TRUE (2)

REWBORN

Jayce C. Patent Foramen Ovale. Med J Australia 9 11, 520

The author reports two cases of patent focusine or orsie. One was that of a female child of six months who had severe broochitis with a patch of poeumonia at the base of the right long. Opanous had been present ance burth. A systolic murmur was heard all over the chest and the apace best at the fifth interspace on the right side. The abdominal viscers were in normal position.

The other case was that of a girl of a years who had alse as seem ery poorly nourshed and a lien examined by the author was extremely emackated. This patient also had been cyanosed since birth. A diagnoss of pneumonia of the right long and a patent formen ovale was made.

In the first case only water was given during the febrile period, and in the second only water and orange jute were allowed. Both patients recovered The uthor states that he has never regretted the use of the starvation method of treatment during the febrile stage of disease. R. E. Camping, M.D.

GENITO URINARY SURGERY

ADREMAL KIDNEY AND URETER

keller O Traumati Subcutaneous Ranture of the Lidney (Sur la repture sous catanée trauma tique du rese) firek el mal el reins el el ergenes efnile primares e 1, 17

Subcutaneous traumatic runture of the kidnes is a rar lesson being found: less than 1 per cent of surposed cases. According to Keller the records of the Muserpal Hospital t Copenhagen show forts three cases in total of \$ 1,000 surgical cases treated during the last twenty six years. The right ladges poeum to be more frequently involved than the left, and the condition occurs much more frequently in men during the orking years that a children

The runture may be direct or indirect majority of the cases referred t by Keller are direct injuries. A direct rapture is due t, compression of the organ by the thorsen abdominal all and associated internal by draulic pressure in the kidney Frequently the twellth rib is fractured by it com pression against the transverse proces of the first

lumba vertebra

The leuous may be cleanfied accords a to their degree and extent as () superficial lessons of the capsule and cortical substance not involving the calaces (2) reptures proof ing the calaces or the pelvis, which ar generally localised on the posterior surface of the lixine; (1) complete cruthing of the kidney which is generally associated with other severs markets (4) unparies of the pedicle or the pel was which are often combined ith some of the foregoing conditions

The most common complication is fracture of the twelfth rib, but other ribs also may be fractured Another common complication is peritosed rupture th the discharge of blood and urine at the

CE IY The general 3 motoms of syncope and shock mask the local symptoms: I many cases, et when the injury is severe, the subject may be ble to walk no to ork On the other hand, a shight rupture ma be (ellowed by numediat collapse \omiting may be the first sign of peritonnal jury. The local signs are skin abrawon t the point of injury swelling on the lumber region, and dollness on pulpation ben an effusion collects. The kidney is session to pres sur and the pam as leactnating and colicky

Hematura occurred in 95 per rest of the reported cases It does not undicat the extent of the harmon rhage, and in the tremely sensus cuses, such as those in which there is total repture of the pedicte or the ateter or the pelvis of the Lidney is obstructed by clots, it may not be observed. Traumatism mm. be followed by polyuma or complete asuma

When hematura is present it may be en data cult to refer it t the Lidney rather than to the bladder unless there are other symptoms. On ar count of the rails of infection, cystoscopy is patisfed oah cases luch are t be operated spot in mediately flamature therefore is of only relate. value as an indication of the gravity of the condition. pergenal tumefection od effusions are of greater LINDOTTABLE

According to different anthorntes, the mortaley of non complicated transactic subcutaneous reptors of the kidney aries from 5 to 7 per cent. The taperscipal dangers are hemorrhage and refertise, both are responsible for 45 and 4 per cent of the deaths respectively

Up to 876 the treatment was negally non ours t ve. The first penhacetoms for this lesson as done in \$3; Slight injuries abould be treated on servatively operation being reserved for those hick

are in minedi te danger I 475 conserv tively treated cases reported as

the bierater up to con there ere serty deaths from hemorrhage tharts-eight from infection, and nine from other carees. The opinions of surgroup ary greatly as regards the indications for operation nd the time it which it should be performed. In the conservati treatment the rack of harmorfatter

infection and other complications are greater than

in operative treatment The manually of surgeous do not legistate to

operate when perstones impury is associated with the renal mours. The most impresons time at the mediated after the creation of the mittal shock Nephrecton is indicated in cases of () pedicle lessons causing trophic disturbances, () extensis in fection (4) continuous destroying all functional insue and (4) lessons necessitating quick operation Conservative operation conserve of tamponing, veturing and drainage or nephrotomy

Short histories of farty three cases collected by the author are given I sex of these cases in hich perhirectomy as done there er t deaths 7 patients treated by nephrotomy recovered 1 the thirt is exact not operated upon there its four deaths

l'agers, H The Surgery of Horseshoe Eidney (Let (becarge der Hulenenmore) Fischt f und Chr 93 13 4 7

The number of cases in hich assistance its sonpathologic horseshoe kidneys are divided in the pres ence of the Rorning syndrome as meretaing In the cus reported by Eggers the symptoms pointed to concretion and infection in the pelvis of the left heles A malformation of the hidney as not suspected. After the removal of the stones by

pychotomy it becam appearent that the ureter passed over the lower pole of the kidney and that nephropery was indicated to improve excretion The left Ludger, was connected to the right by a

athmus ; cm wide and o 5 cm thick

The division as done a thout difficulty with the use of tw clamps and cantercration of the cut surfaces with the Paquebn cautery From the drain there was by shight transsent ducharge with a sunners odor The kidneys did n t rhound to the normal sites after their division, as in Rossing's case I subsequent py lographic examination rerealed dilation of the right renal privis and a los position of the Lidners Fixation of the right ladner was not tiempted during the operation because t was regarded as advasable to want the operator result on the left kidney on count of the presence of urman infection. The result was completely successful on the left sade but on the right sade there was incarceration of the Lidney which required correction by nephropers

The author assumes that the boormal course of the ureter t least fored, if t did not cause th dilation of the pelvis of the right Lidney and th aton formation in the left. The refore in every case of pathologic horseshoe Lidney the course of the ureters should be determined and unless serious lesso necessitates th extirpatio f one half of the kidney the division of the arthmus should be followed I was (Z)

by arphropery

Residio, E. Cystic Lidney (7sr Cystennere) Tucke f and Chir o 135

Three cases of cystic kidneys are eported. The chaical symptoms or mainly enal hemorrhages and colicly pams. The bleeding lidney as exturpated in every case and the patient survived th operation for several cars in spat of the fact that the other kidney also underwent cystic degen

embon

The first case as that of man 39 \ are old who slowh growing tumor in the right kidney Cystoscopic examination showed blood in the urme coming from the right ureter. At operation the moderately enlarged organ as found to be completed unfiltrated by costs. A ne of the cysts was larger than walnut On of them to tained stone The renal pelves and ureter were egative Four years later the patient as chascally ell but the formerly impalpable left kidney had become datucti) pabable

The second case was that of moman 48 years old be had sudden severe harmorthage and re peatedly passed small concretions. On the left side was a podular tumor as large as an infa t bead C) toscopac examination revealed normal urine coming from the right urster and pure blood from the left A left aephrectomy as done The ladner removed was markedly cyrtic and showed o ly shight amounts of parenchyma. The remaining indney functioned normally soon after the opera tion but in the succeeding cells gres rapidly and

became visible in the roentgenogram as a large shadow Soon thereafter the severe colics associated a th hemorrhages recurred The patient ags still alive three years after the operation but occasion-

ally had severe clinical symptoms the third case hematura and a renal tumor on

the left ande were the first indications of the condition. The cystoscope revealed blood naming from the left areter. The nine from the right areter was normal but the right kidney was pulpable as a distinct tumor. Remon I of the left kidney was followed by ecovery \me months later the enlargement of the right Lidney had increased conaderably Pneumoradiography revealed a large renal tumor with pronounced multiple humps Transpect slight renal hamorrhages occurred Two years after the operation, the patie t was still shive but the symptoms persisted

Regarding th indication for operation in this type of case Woundlo takes the positio that surgical interference is indicated only by harmorrhage buch threatens life and then only if the other Cauc Lidner is functioning properly. The correct drignoses can be mad in cuty cases by pneumoradiography of th kidney bed Careful histolome tody is important as a tru tumor growth may

he associated the the cyst formation BEURTT (Z)

Berne-Lagardo, R. Th. Hist logic Lexions of Experimental Asseptic Hydronephrosis (Lex Neuron britology) de l'hydronéphrose expérimen DeBerne-Lagardo, R

tale reptique) firek é mel é res et é espe es DENGERY BY BELLET O

CHINODS

The majority of writers compiler the nephrits of experimental hydrocephrons as doe t the emthelial lessons but there attribute t almost exclusively t the mechanical factor and regard or liferation of co nective time as a direct result of infection English and American pathologists consider th vascular elements of great importance

The author has caused experimental hydrone phrous in white rate by obliterating the preters. He blamed amptic hydronephrons in six of fourteen such experiments, hydronephrous with slight in fection in three, prontphrous in two, supporting hematonephrosa in four and renal trophy in one This experimental work led to the following con-

The histologic lesions observed in Lidner attacked by aseptic experimental hydronephrous evolve in two successive phases (i) mechanical distention of the tubes by the retained urine a distrition which is unequally distributed in the tubes () atrophy of the wall of the tubes. If in this second phase the connective theme predominates, the cause of it resides alone in tubular atropby Up to the last period the glomeruh remain

cases of aseptic experimental hydrone phrosa the other kidney remains entirely normal

W Y BECOMM

Bhum, V The Diegnosis of Eurali Concretions in the Renal Petra and Uneter (Zur Dagnostik kitner Kenbressete im Niernbecken und Harainter) Ziele f mei Chr. p2s, z auf.

In cases of stones in the kedney and ureter the number of morrect and doubtful disposes based on reentgenograms as no greater than to 5 per cent, but it is just in these cases that the determination of the resal disease and the causes of the attacks

of pain is most difficult

The demonstration of concretions depends upon the shadow picture in the plate the identification of the shadow states or result and interest atoms and the accentance determination of the position of the stones. A stone may be invasible in the recepterogram because of insumal auto or in chemical structures of the state of the state of the state flood, or because there is an accessive development of fat in the retrieve of the labels.

Conditions causing shadows i the indust region and along the course of the unter which may lead to errors in disquess include calcified glands, phile-oiths, calcification of the prive lipanents, artifacts to the reintern plate, and forcum bodies in the

Introtage

Concretions smaller than cares y seed are difficult to find in the roomtgenogram if the subject is fat, but may be the came of typical color and ha-

natura. In every prototomy for visible concretion the entire surpoid pelva of the bidney should be sounded with satisfies instrument in order that all small concretions present may be decovered. One and stones, which are permetable to the ray, may be demonstrated by mapproparting them the collupta such as the processing of the control of the standard of the present may be a few parts of the standard of the present may be a sufficient or the standard of the s

bladder.

In every case in hich claused observation suggests the possibility of stone formation the combination of radiography is the mitroduction of shadow graph catheter and py-diography is recommended for the identification of suspection shadow formations with stones in any on the repoin of the

Aidney and in the course of the wreter
Course (2)

Caminara, A. The Transplentation of Free Muscle into the Nephrotory Tround (Free Market transplentation is the Asphrotomerands) Lashf and Clar. 9 17 433

Of the rations operation on the kidney nephrot only is followed by the greatest combine of I takens from secondarn betweentage. The increase planned to and section of blood result (Rocket), through Marwedel) her not been successful in suproving the conditions. The statistics of Tachnika based on musty cases of secondarn hemornhage after orphrot ony shor that according applicationy was been say in forty-one cases, and in spile of this procedure right of the patients deef. Of forty-one petients treated concert survey fiftees deef. Pack any prevents an immediat secondary hermorkage but may become loosened. It also interferes with primary healing of the wound. Experiments have permanent health of the properties packing material sax's as fall and fences, by Koempell. Not only a setantified to these by Koempell.

Muscic substance has been appeted to musc hemorothage from bone survives (Schalged), the crantal bones (Borchardt) sansons (Study) and soudde of the heart (Lace will be expressed as soudde of the heart (Lace will be expressed as soudded to the heart (Lace will be expressed to the sound before the heart (Lace will be expressed to the sound before the study of the sound before the sound before the sound to the sound to

Even the respond and functional analysists at an interesting to note that only a few setters or an interesting to note that only a few setters or not superar by the operatir procedure or the few loosely knotted satisfies and the functional test of the kidney operated good was saturation. To pure of the transplant which projected and the peries of the kidney became secretic and nacertated by the unner and puned off therein the states of the time and puned of the period of the satisfies of the satisfies to the had headed to an explained in one-

The transplant was taken from the extrasor

muscles of the back.

The procedure described has not yet been applied to man but it is recommended for asspire cases in such medium large incoming it made in ... off

preserved parenchyma, such, for example, as cases of very small stones in the pelvis of the hidney javant (4)

Human G L. Urabral Stricture As Important Eclological Factor in the So-Called Learning Humanuries J in M in p bru 33

Hunter rejects his experience with cases of result herentain so the so radic sectional type II collections to the fact that we are undetected for research Lonevidego of the adject to the ori. of land 'Gost' intent have followed land or service the service of th

The object of the article is t call attention to the important ride that wreteral sincture probably assumes as many of these cases it under referlently t has expensive with undertal sincture in the causation of various nephropathies and at tes that in eighteen of his cases of essential hiematuria stretcral stricture was demonstrated

tratels and conclusions, ten in number are stated and briefly commented upon in an endeavor to establish a new point of wew as to the etology of the orphitts in a large proportion of these hitherto

imperfectly understood cases

A careful analysis f Israel' fourteen cases leads.

Hunner to the conclusion that uneteral structure

as probably present in eleven

Hamner emphysizase the fact that symptomless
recal bleeding is firm due t renal tumor. While
exploratory operations for the determination of the
cause of the harmorrhage should be less frequent
in the future one should not heatate t explore a
bleeding kidney is thout delay if
even by
attemnt at diagnosis has failed and the bleeding

does not respond t the treatment for adsopathic highlitum:
I statem cases a good opportunity was ffered to study the results of uncteral dilatation in the

trestrent of the harmstoria. In its nephrotom, is done his fourten were treated by gyat scope methods lose and the care [foot Inflection such as the text h of the tonois I is it cases there was recurrence of the condition but in these the presence of rendual foot of meetion was suggested. I ten cases, usclading one in which nephrotomy has done there has been no recurrence I the latter cases no treatment other than was brille dilatation of the structure was are me.

The article is illustrated by unserous prelograms
H A for Lim M D

Glordano, A S and Bumpus, H C J Cercinow a in the Uretwopelvic Juncture Meastatic from the Prostate Report of a Case J Let 9 m 445

Metastate from cartinoma of the pristate gland on smally detected first in the lumbosataril repoin Of series of 191 cases in which outlier forest common into one made eight four (8 % per cent) showed metastates in the hones. The next most common into of metastates that he would be the high the high common into one metastates that he would be the high common the high common than the high control of the high cases are smallly the first to become in old. From the high cases of the high cases of the high case of the high cases of th

I about \$4,7 per cent of the patient in about notations as demonstrable the hymph nodes on the left side of the neck are affected. Enlargement of the neck are affected. Enlargement of the original forms particularly in the per cent of cases in high malignancy of the prostat does not coice unany a mysions.

A form of metartasis which occurs only rarely in cardinous of the protein is metastate in diveing to the bloomial viscera through the blood arrain. In the case reported in this article, metatases were found in the perspectate and vertibral huph nodes and in the left kidney and the unrier close to the renal pelvas. After the application of 45 mg-lim of radium the patient, a man aged

63 years developed marked gastric, intestinal, and cardiac symptoms, failed rapidly and died on th

math day

At autopsy numerous metastatic nodules were toom at earther throughout the pleume and lungs. The permertebral lymph nodes along the lumboactal repon were extensively affected and covered the aorts from the infurcation to the first lumbar vertebrs. The left kidney weighed 100 mg Ino Its upper pole was an infart which was found serial section to be due to metastatic carconoma cells plugging a small blood eased. The gray six houdless discovered it the oriestopology junctive ere composed of the same type of undifferentiated epathe liad cells.

The bladder did not present v gross bnormalises except a rough granular area about 3 cm in diameter in the brue which was found on section to be direct caranomatous inflitution. The prostate gland as moderated enlarged and could not be skelled from its bed. It is a firm in consistency and is cut surfaces were grey, and gre ule. The lymph nodes urrounding the prostate ere also inflituated by caranoma cells. Careful examination did not reveal metastass it the bone.

The history and the climical and laboratory find ings of this interesting case at given in detail. The thoral conclusions are unmarized briefly as

follow

The metastasts to the pel is of the kidner in this case may be terpreted as illustrating the direct | mphatic connection to the prostate bladder and the kidney and may be considered evidence th t infections of the bladder each the Lidney not by the luming of the preters, but by the hymphatics However this does not seem probable, as the lympha ties of the ureters were not involved. Moreover so as a know that is the only case reported in the literature in hich carcinoma of the prostate metas tasured t the renal pelvis. This extreme rarits should be trong presumptive evidence that direct h mphatic connections between the lower and upper unnary tract do not exist and that infection does not tra el in this manner. Otherwise with the large number of neoplasms of the bladder and prostat metastam to the kidney would occur more often

In this case the presence of the cancer cells in the blood ensels of the lump and the metastate renal inf ct and seem to demonstrate that the malignancy a calmed through the blood stream to the unter rather than by the lymphatics, a rout probably travelled by many so called ascending infections.

BLADDER UNETURA AND PERIS

Young If It I The Operative Cure of Incontinence of tribe 1th librat th Care. J [# 11 fu 16

TŁ is a cry comprehensis and instruction trick die I gia detail the problem prese ted by the arrow tipes I cases and the open to technique the other has ton ditat factors Law hint ince cited and I for trumber of fifust t e are breleded Louge d which com I b th folkming for great

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thord that there are at the B 1 (1 th pehin ad lar bull tractural Ith IL i al the urthe natural t m 1 the gentle super pilic and personal track we come re-The not by Last we excel det internal ori-nd the formal and one level decidence we l trá returned the ternal character

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hat also in the ment ration other and it thun gula les ment Little manguaged to temperature the box

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alle Malester batch base barreto in the depth of like the erumo tamem until to made out The upper all of the pribe as the the bladder th ough the dal rel prost to streibt and also through the merebranus rethra int th deep bullous seether here t met by fine pared through the pende defect from authout

It was thought perryun not only 1 mare the roof of the prostate rethra but I continue the excluse do pward so to achede the mol of the membranous arethra. In daug this t found helpful t mak part of the excress through the

d.l ted penik defect. Aft t. ficket term had ler thus removed from the ballous arethe doub t the civil cally appearing this of the circles effected b means I the hormers a reedle boll first along the roll of the men ranges and prest to rethe th outh the squarelie sund ad then through the peads defect. It beauts we conducting the fittin 9 q pera tityload st the prost to enfire so that it reworked a promain rates alt sort lette i bred

It hett er be ben williante er marriaried for bout three rel in only to lace tt bured it sharing nh The ful or term transport at bottom to ers it obtained the three cases has been atta

f tom

You get in the concherent that the time cares of montains funne and ted that the and a second of the ball of the second and before I live the lower flor the from LL rient Lat I stern I phrater on that neural le of h Le account to Perguent proin mai well muster at a falibora It! I me There we not those I the three et a see a level the erra ele ten de truct of both the internal and the ermal place of the pressure of large mount for those to find do by though I I peral I in monturence rid to ab in pormal rentire baseup I II c M I

hrs pinhelm F. The Operath Trestment of lacenthrence of the Leinzer Bladder (Demera Brea ! or I km sera der Harn

so real that of tentre prop 11to min t der reductional and Ir cfts after see regard 16 reshed sedmitting ditting for I themse th formul of rang th tree of freeze from breet made almost il renk u la be female if musik if the fisterckel ad be firmle it measte it is located as the second control added in the prior and in it is but I so also it in the I so also it rived judgment the sour x of the error in the state of the posiport is of the les ins Kuel sames) or the later you are of he tru goes the ment satisfactors could be the unit to of profile or hereated had here ab denied here use it in the followed be contrators timber as post (2)

GENITAL ORGANS

Sch metz. A 11 and Cancil., J. Streptolbrix Prost this / Ind u r

Rectenulogical study of senses of cases of pros tatitis made by the thors revealed the presence of replacker on the prost to: secretain of a lust samplet The tody is summarized as follow

found by cultural morthod trentotkn or ner cent of the cares

3 Most of the cases with positive culture of treptothrix differed chincally from the others in that the arethral discharge was distinctly muco.

3 In sphi of the ten cases in which clinical cure was obtained cultures were negative for strep tothrix t weeks after the suspension of all treat

4 Tes to 17 per cent of all cases in which the streptothms was demonstrated were relieved of the methral discharge by specific cone therapy. Supplemental prostate massage was necessary in only three.

5 Cases responded to a togenous accine therapy ripedly or not t all Of the eight cases a which both a chirclal and a bacteriological core as obtained, seven were p en ten injections or less. Th

tained, seven were prienten injections or less. The cighth case received fifteen injections.

6 T. cases aboved clinical, but not cultural,

7 Three cases showed practically no change after t enty or more injections

cure after fifteen injections

For Allo F Have, VID

Tenenheum J. L. The Pathology and Mechanism of Prostatic Hypertraphy J. Leal. 9 in At

The utbor summittees the mous new theories regarding the pathology and mechanism of the changes occurring in prostate h pertroph. The subject is desirated safety the follows globedings () the mechanism of the changes in the utrefus occur may in prostate hippertroph () the effects o the bladder and (s) the changes in the upper unnary tract and their occurs limited to the process limited to the contract and their occurs of the contract and their occurs occurs on the contract and their occurs occurs of the contract and their occurs occurs of the contract and their occurs occurs occurs on the contract and their occurs occurs occurs occurs on the contract and their occurs occurs

The progress made in prostate pathology leads to the conclusion that the so called prostate hypertroph is really a hiperplana of the pen urethral glands. The prost to testif undergoes trophythrough compension by the growth intrading point to riginal as physiological presentle procuss occurring in diamed life.

Prostatic h pertroph cannot be considered dream. The true pathologic process de lops the the secondary changes the urin ry tract caused

the secondary changes—the urin ry tract causes by proliferation of the peri urethral glands— The changes—the sax lome—ad ury of th

urethra re the sult of inous o operating and tagount forces of which the direct pressure of the introduce glands the indirect influence of the changes in the bladder upon the urethra and the stouncil peculi rits, of the latter are the most important. The part of the urethra which is directly important.

unportant. The part of the urethra which is directly subjected to moulding by the growth is the supramontane portion of the prostatic urethra.

The miscular privates of the urethra suffers.

gradual loss of clastics of the preting sumers gradual loss of clastics. The most potential changes ar observed in the so-called longitudinal nuncle lach bject t direct pressure and distortion in the growth

T types of intrusion of the growth int the blockler m y be diet nguished ut the direct of

the indirect. Direct in asion occurs in or men the sphinister of the bladder and is associated as the alterations in the symmetry of the bladder and the outline of the phlicter. This is not observed in the ndirect invasions, which ruse the entire floor of the bladder suffour affecting it symmetry directly.

The pathologic middle lobe formation has nothing common the the anatomical of Home prostatic lobe

The alterations which take place in the bladder are due to t a tagonistic forces the quality and the degree of obstruction and the capacity of the bladder to result the effects of barructio. The cards stage of bl dder in of ement re-marked by its increased muscular citivit. In the later stages of growing disproportion between obstruction and resultance distension and at my of the bladder is combined as the mpairment of muscular activity.

The concepto of back-pressure as the primary came of the changes occurring. In upper unit by tract is inconsistent with the anatomical and physological perchanties of the bladder and the urtercontraction of the bladder prevents rather than causes unnary redux, and in no tonic bladder unitary redux, and in no tonic bladder unitary redux is till less probable.

According to T adler and Z cherkandl, ad anced bladder distention i prostatics i vors compression and narrowing of the uretern which in turn may cause obstruction of the downflow of unne and be followed by secondary enlargement of the parts above the stricture.

The early stages of renal in oll cruent occurring prostations are marked by congestion of the kidney associated with nocturnal polyuma and are followed by gradual destruction of the kidney subtance with the symptoms of anotheria and hypostheogans.

The cortoscope parture of an enlarged interure teral byament extending beyond the ornices of the ureters as observed in the later course of prostation hypertrophy is suggestive of a complication in the upper part of the urmany fract.

Lon uso I Hevs, VID

Harris, S. II Prostatectomy A Review of a Recent Series of 146 Cases with Five Deaths. Med J. Instelles, 9. 11, 40

The author reviews a series of 146 cases I ented by prost lections during £ c year period in which ther were five deaths, a mortality r to of slightly less than 3 5 per cent. The deaths were due to embolism circulatory failure secondary hismoorthage, shaustion and urosepsus respectively.

C) toscopy as performed in twenty seven of the cases, and prelimmary C) totoms in thirty. Supra pubsic prostalectomy as done in a fill the cases square method of emerceation being used. The

verage age of the patients was 60 years the oldest as 86 and the vousgest 40

aperient or enema except 3) pt of salt solution was administered watch the fourth day. hen it or of castor oil by mouth and 6 or of warm olive oil a a run lo-

by ecture or given \ bladder krigation of any kind w used during the first fortnight. The major ty of the p tient begin to pay since natur fly from th eighth t the teath day. The uthor target the use of a gla tube for bladder drainage instead of rubber tube TIInr

Hard R. D.; Cyst of the Fridity min. Louis

tivets of the endalments are not rar and may e ach the sue of hydroceles. They are I equently islateral. Monoil ad Terrillon d ide them lat groups (1) small cysts ly g also c the global major and (1) is eer e) to so called merms occles

which are more level I lated t the lest Theformer which are u important are not eranm

root in old each roll at topmy are as ally found on the man a surface of the gi bu maker. They are sesule and a fiscrett and tange in the from that of a pleberd to that of a pea. Their p thogreen is encertain. They so y arme from vest gral rema to and much from transpa or inflammation. The was no amploms and require no tre timent.

The latert co 1 are of cleaned importance. There puthology is till encertar. They are believed to orgenate between the under surface of the globes m for and the upper seriace of the testis, excrush log upon the epolid mi. As they show co-meaning tions—the the eers will direts and corts a premise not, they my be due to partial dilat tions of the excretory dad of the tests. They appear to be retention on 1. The avail around to flood contained in them is also I 5 or. but much greater quantities

ha been found

These of her are differentiated from hydroxele of the t wa vaguable by greater softness, palpable localition, the position of the tests, the persence of spermatosou in the fluit, the findings of transdiumnation ad conclusi ir by tare az

The pulliat e treatment stapping Il recurrence

develops timpature in located.

Lorn Yeaven M.D.

SURGERY OF THE EYE AND EAR

EYE

Brumm S. A. The Relation of Orbital Affections Due t Namel Conditions, Person! 02 777 74

Orbital affections due t name conditions are in ored by deflection of the masal septum, especially opposit the middle turbinate abnormality in the are and position of the middle and superior t bin tes, and faulty drainage and ventilation. These cause an intrasmusal pressure which produces chronic congestion hich is followed by hyperplasia, especially of the basement membrane and even tually blocks the posterior sinuses. I fection may then take place and cause an offenmentory process

The latter is generally estudative, rarely suppurative S clims militration screeds by continuity of th tusties of the optic nerve and is meninges. In many cases there is a history of recent coryza or a prior influence, and in few the history of an old inter mittent rhimits with severe headache but a thout mucopurulent discharge from the nose

findings are co junctive tra, choked duck, engorgement of the retina, and loss of the color The characteratic symptoms are those of

rita, uveita, or retinitis

Local treatment may consist of shrinkage of the turbinates and the use of the account, but the putient should be watched most carefully by the ophthalmologist as operation may becom imperative Surpcal treatment may convet straught ening deflections of the septum, turbinectomy throad eventeration and spherood aeration. For

hyperplastic types with infection the author ad ocates the use of autogenous accines. An \ ray examination should be made to determine the presence of anatomical abnormalities

I WITE P FITTEGERALD M D

Shormaker W T Some Observations on Orbital

Reports of Three Cases Passes mute U / 912, 75 70 A college student aged 1 years had pain for are da) is and around the left eye. The lid as slightly swollen the palpebral fraute a trule widened, the eythall proptosed, and the movement of the ey ball houted t the temporal side. The pain was

increased hen the exchall was pressed backward to mon was h but subsequently decreased to he Crammation of the fundus showed a light blurring of the dral at the temporal side. In the next few day a definite neuritis developed and there was an area di fundus elevation about 5 diopters in excess of the general hyperopus. The overlying choroid and retina ere greath disturbed and the fundus below markedly streaked The elec ted funders and

shadowed in transillumination and definitely out lined by perimetry. The left nasal chamber as found congested but the right a normal There a no pus in the nose I transillumination from the mouth both antra were black. In transillumina tion through the nose, the left antrum w s black but the right was fairly clear. The tentative diagnosis sas an unusually thick bone forming the hard polate and possibly a solid growth of the left antrum The treatment consisted of mercury inunction to the point of toleration followed by increasing doses of potassrum sodide and the administration of ar

senic a th the mercury Recovery and rapid, com plete and perma ent Points emphasized are that cases of unproved malignancy should be given thorough treatment th mercury before they are subjected t surpocal interference that mercury is valuable as an absorbent in many conditions other than syphilis and th t radical measures should not be resorted t

before a sufficient amount of time has been allowed

for results from ther methods In an infant 6 months old harmangeoma oran nated thin the orbit and presented at the inner angle of the base of the upper hd. The physical examination revealed enlargement of the thymus giand, evidences of cretinum, enlargement of the seen, and other signs of endocrine disturbance On the skin of the bd. directly over the soft protruding mass, was a small nevus. As the tumor increased in size and was accessible and as it was unmatalahh ascular operation was decided upon Ether was administered and the growth extirpated

in the usual manner

Sections of the tumor seemed to confirm the diagnosis of hiemangioms, but there as recurrence within a few weeks and the spleen remained en larged, suggesting strongs) that the second growth was sarcoma Opposed to this, however was the fact that the child general condition steadily im

The recurrent growth which had extended along the entire base of the upper lid and was larger than the primary growth was thoroughly removed. Th accound fumor was variously disgnosed as sarcome. harmango endothelioma, and harmangoma

Since the second operation there has been no re

currence, and the child has remained ell The use of radrum was considered in this case, but Shoemaker regarded it as too powerful and not

sufficiently controllable to introduce close to the

In the case of a boy 73 sars old the surgical removal of a fair sized encapsulated sarrooms from the orbit was followed by \ ray treatment Six week after the operation active recurrence as noted

growth was cheefy on the flow of the orial cill floward. Dorr ask in their were it reduced just the tumor and allowed it creating to the house within needs pearlead all stem of the house drappeared. During the subsequent is the the alsh of the lower id softened and the propriots decreased. The peacest them turns become act large as one can pure like during on the orbition a fourteen month and the term of Lays its red about three months.

Jan P EnnGru M (

Cifford, R. R. Ocular Sporetrichosts - Irch Ophia

Guident reports the case of Jon 3.5 reddy head personnel feited of the lachymat sac consected it halvested ethinoid cells. C ltures of certification and these organisms over evoluted in pure culture from an insculated hit it. The patient is given large does of incides. The end result in not reported but the t treneth in made that the lesse headed.

The author review pumber of similar see buth h been reported in the later to re-

Tanua II. Ocular Sarenem with Wide Extendion

I velving the Brain od hplosi Cord Nr. J. Ophik o 1493 337 Penetration of the glol by epibulba sarroma rerare and instances in Each thi occurs thous

rising extensive damage to the form of the evehall particularly unusual. A use of the latter type is eported if the article of the general review of the

bieratus of the subject

The ther patient is a man of an observable who complied in a collision training between the parties are all the parties of the left of Daught the bump in order of insure left in an observable in the manufacture of second monted for all months. In March to there was marked edings of the subcompacts at towns with overlapping of the content margan all rounds sign gesting propose. The companion of more than the parties proposed in the content of the parties of the content of the conten

restors product the conjunction of the conjunction

anterior chamber taken to be lev lets I of the proper kins ere relike

Intelection patterned Fram nation of the globe received discounts led sarromators strict remarking practices. It of the mira could resuse there is no making practices. It is ame secres in the case of the country from the leading as prompt and at the end of another months there had been no recourrises.

The author dra s the following conclusions a t

the treatment

If the growth is freely movable with the conjunctives over the underlying structures and in reason! size slowly local remov I is indicated If the growth is the least adherent, the globe oil considerable margin of onjunctive should be emoved and radium, optied

concert and radium policed

3. If the growth is large and there is a history
of rapid extension, the orbit should be exenterated

Woods, A.C. and Kunpp, A. The Therapeutic Lee of Overl Pigment in Sympathetic Opiniod and teck Opinio q is the

I wre P FreeCraus, MD

In a theor report the seed as n. exceed by no had n subschard concerd and r and prolippe of the tits, the coils of posorthead conjunction is discussed in the constant for two 1 was high precipion and termion plus 4 wheteroom door the defect in the once certified the prolipped his removed and the correct of conditional content of the prolipped his removed and the correct conditions of the prolipped his removed to the content to the prolipped his removed to the condition of the prolipped his removed to the first time of the prolipped of the content of the condition of the conditi

The paid in serum science it and personal to the paid in serum science is the paid to the paid to propose a dispert of or passive of service and service of passive of service and service of service postions therapy as then beyonder in the continued to great service the trainest of service the trainest of service the trainest of service the trainest of service the service of service

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fittimation and this find those to roo
The tech sque of admit stering the pagestal is
described did Tame D turn MD

J. L. C. M. Fucul I. Section in the Torroll Canadral g. Tuberculous Ophthalistic J. Sec. Ju. 1. v. 49

The a their report the rise of grid grid earn hose ondrition dispensed tubertules sides seeke learners dispense confirmed by it crid exhibits. The pix all and res tigen reveaus these or negre although the pix at the green of an asserted and extended the pix at the green of a seeke seeke and the green of the green of

Jet enachested the torsal of up a believing them to be the force of understone. Drop natiologier estimation the aboved broater inflammation hypertensions, and gre t unabove of military becales clustered around the crypta. The majori of the latter ere epitheloned t berriets, but there lach were larger and considered showed exacting and gas teeths.

Following the operation, vision in the right ey improved to 20/30 and that in the left becam normal

The a thor has been unable to find the report of a similar case—the hterature

JAMES P FITECERUS MD

Verboeff, F. H. and Friedraw M. J. S. Injury t. the Cornes and Conjunctive Due to Fish Bile. in J. Ophile 9 857

As a result of experimental testings of the effect of bile on rabbits t was thought that the corner openty organily intuited to fish bile in the case reported was probable due to the use of lead are tate as an eye wash. Verhooff and Freedowald therefore warn ophthalmologuis gainst the use of lead cretic in corner | brazions

THOMAS D LLEY M.D.

Johnson, G L. A New Method f Removing the Lens in Its Capanie Arch Opins 0 h, 545

The author uses t instruments, a shored spoon of an extraction spoon which are show in cuts it is not spoon of the problem edge. It is top and while making pressure with the other spoon on the lower part of the corners breaks the smooth of the wholest shore and presses the kins out out the first spoon. It is not concerned to the loss of small amount of intrees provided h does not convert the oreservata. They way to Author, Moreover the oreservata.

Blake, E. V. Bilsteral Detachment of th. Retina in Nephritis of Pregnancy Restrachment of Retina Arth Opics 9, h 585

In the case reported final vision as 20/50 in the right ey and 20/00 plus in the left and the visual fields ere practically normal

Blake reviews the literature briefly and concludes that ophthalmologic examinations should be made more frequently in cases of pregnancy

TRONG DALLE VID

EAR

Hodges, P. C. A New Method of Simultaneous Stereoccopic Observation of Both Mastoids. 1st J. Receipted 9 12, 753

The author makes stereoscopic exposures of both mastoids on 5 by 7 m films and then mounts there on two perces of by 7 m refluided in such a manner that those of one side may be seen stereo copocilly shor those of the other side. It has found his method sumpler than that described by Hill and Thomas in 1911 and equally efficient

ADDRESS HARTENG, M D

Gottlieb, M. J. The Indications for the Redical
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A fool sural decharge exposed bone in the middlest and a decided decrease in bearing singly or altogether do not constitute a definite indication for the radical mastord operation.

A chronic fortid aural discharge accompanied by beadache or vertigo originating in the ear indicates the operation even though hearing is good.

The presence of large obstructing polym, cholestentomats or fistulous tracts drawing through the masted coviers or the posterior bony wall of the external ditory canal constitut definit indication for operative intervention.

An acute exacerbation of obstruction to dramage in case of chronic mastorditis arrants radical treatment

The development of facial paralysis as a complication of chronic otorrhors is a definite indication for the radical masterd operation

Cases illustrating the occurrence of fixtulous tracts and ugns of obstruction to dramage m the middle car are presented in detail

The radical operation abould never be done unless a functional test of the labyrinth has ruled out the presence of latent chronic labyrinthits.

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International Abstract of Surgery

Supplementary to

Surgery, Gynecology and Obstetrics

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External communications aboutd be sent to Frenklin H. Martin, Editor 30 N. Michagan Ave. Chongo.

Editoral and Baumens Office: 30 N. Michagan Ave. Chongo, Illinois, U. S. A.

Publishers for Great Bertain. Bachers, Tendati & Cox, S. Honnetta & Covert Gerston, London, W. C.

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EDITOR'S COMMENT

FROM its interption it has been the purpose of the editors of the Ixtrax virtue of the editors of the Ixtrax virtue area of the editor of the Ixtrax virtue is readen accurate and duscinimanting review of the world best approximation from the large a task this has become is suggested by the fact that in the 111 abstracts appearing in this same twent that in the 111 abstracts appearing in the same twenty of the original transition of the original coming to use data, appearing in the journals coming to use data, lasted in the labely of correct therefore the original transition of the original coming to use of the original transition of t

In this abundance of material certain articles are of particular significance in that they represent new ideas, or old ideas acon in a new light or that they indicate an error 1 theories that he eventual been accepted as fundamentally

correct

It is the purpose of the editors to call attention from time it time in these columns to most gations and discussions that they believe to be of especial importance in order that such reports may recent the proper emphasia, and not be lost agint of in the abundance of material presented.

THE use of radom and the V ray in the I territines of malignate thorses and of uter net filtering of malignate thorses on of uter tal problems of present day medicine. The constant attempt to bring the therapeutic agent into direct constant with the tosse; be treated a reflected in Plahler is suggestion (p. 120) that in the treatment of constants of the threatment of constants of the threatment of constants of the problems of the problems of the problems of the problems of the constant of

gastro-intestinal tract (p. 49)

The effort to bring the therapeutic agent intidirect contact with the tissue t. be treated is

primarily due to the better results attained under such conditions. Another phase of the question the effect of radiation from a distance iron aor mail tuspes adjacent to those the radiated, for instance the effect of the mention my or of ridium upon the large bowel and bladder in the treatment of uterine fibromyomata his not vet received sufficient consideration. The surgeon is warsed in the treatment of cancer of the pel ic organto a old causing mathation future by new ing the formal tissues ande with a well placed vaganal pack (Clark and Keene p 255) but no mention is maile of the po-vible sciensing effect of radiation upon the blood venels adjacent iscera, and of the after-effects of radiation upon these viscera. The American is looking forward expectantly to report of experimental work with the X-ray and richum this will determine the late results of radiation upon normal structures

VE of the most interesting and sugger-tic contributions to the hieraters of the month is the discussion on the treatment of nonmalumant affections of the colon (p. 117) * symposium presented by fiv different surgeons at a recent meeting of the British Medical Avecustion in Glasgos. T the surgeon also has come t regard any attempt to combat the symptoms of visceroptoms by surgical method as meddlesome surgery it will come as a surprise to read that Wangh has operated with remarkably successful result upon 518 patients (the abstrut of a former report covering 305 cases appeared to this journal in June 920, p 44) because of emptoms due t an excessively mobile excess and colon. Gray a experience, in the main, for roborates Waugh a conclumous

As several of the writers in question have pointed out with reference to secreptions the condition with the resulting complications—constipation, intestimal introcution and chrose remarkets—a a disease of early solid life, and a measures which successfully considered the become previous mechanics in its best series.

INTERNATIONAL ABSTRACT OF SURGERY

APRIL. 1923

ABSTRACTS OF CURRENT LITERATURE

GENERAL SURGERY-SURGICAL TECHNIQUE

OPERATIVE SURGERY AND TECHNIQUE

Burket, W. C., and McChure, W. B. An Asseptic Method i Intestinal Ametomesis. An I speri mental Study. Surg. Open & Obst. 9. XXXV

In the method described, the authors use an instrument formed of male and female half as. A protected optioning a limit blade contained in the naise half of the instrument cuts against the female half which consists of solid block. The aseptic operation is performed as follows.

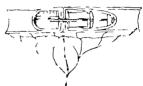
The ministrace is reserted bet een ligatures with the actual cautery and after the mesenteric essels in the operative field ha been cared for each can termed out end a unvasimated a th half the unatru ment to such an extent that double purpostring source may be used don, over the outer end of the ball of the matrument. The halves of the matrument are then brought together and the butted ends of the intestine anastomored with interrupted mattress satures. The mesentery is closed with continuous glove suture. When the gut ends have been completchy sutured, the lumen is re established by out tung out the intervening gut wall disphragms by gently manipulating the colondrical kind blade through the intestinal all. The anastomora is completed by sliding the instrument down the m testine well away from the site of the operation. It will then be passed out of the intestines by per staline movement

The method has been employed frequently on frushly soluted pag' meestine and also in asseptic operations on bring dogs under other assesthems.

Its advantages are summarized as follows.
The closed abutted ends of the gut are cut through and the lumen as promptly re-established (thous soding of the operator field or the sufficient of t

through the line of suture

N mechanical device is left as nis to interfere with the healing, as in the use of the Murphy



Disgrammatic longitudinal section Instrument in vagnated into get ends and parts brought together for meetinal gature and manapolation of the cylindrical blade to cut out the intervening displanations of get all

button. The cylindrical kind is removed from the field before the operation is completed.

The remaining inturned cuff of intestinal wall is desirable length, and is neatly sharply and uniformly est

4. An anatomotic opening is obtained which in dameter closely proordinates the gut himen and prevents temporary betroction or too great nar rowing of the lumen.

5 Soling is reduced to the minimum, dependent upon the effects eness of the ca tery and the skill the which satures are placed in the submucosa without penetrating the mucosa.

HALTER C BURET MD

ANASTHESIA

Block (the secral nerves may be accomplished by four deferral methods (1) epidural, sacral extradural, and caudal anesthesia induced by the

alection of aniesthetic solutions into the sacral eanal by w y of the sacral hi tes. () block of the nerve trunks after the plexus has been formed, (1) personnal presectal, and anterior sectal sines thesis or block of the nerves at their coits from the anterior sucral foramina, and (a) transserral anestheses, or block by means of mections through the posterior sacral foramina.

In the first method so c cm of a per cent solution of not occurse an bicarbonate solution are in sected rate the acral canal Amesthesia assually results a thin twenty or thirty minutes its money limit is variable but as a rule it includes the entire pelvic floor and viscers. This method fails to mee committee anasthesis in o to 5 per cent of cares and is followed by toxic symptoms more fremently than other methods

Block of the podic nerve posterior to the spine of the uchum and on the menal surface of the inferior ramus of the archforn has been advocated The methods re technically difficult and do not gn extensive operative abesthesis of the pelvic oor even though both pudic nerves are properly blocked

The pressoral, or parametral, method is also technically difficult its results being consequently undependable. It is usually combined with local infiltration of the turner. It fails to cause complete operative anesthesia in about - net cent of and

operative field or saludation narrows. The server included twenty-one patients who had a cold on the morang of the operation, forty-one who were in the bosontal convalenting from a previous opera tion, there's t o for whom local anesthess was advised because of poor emeral medition to the betics howere super free t the time of operation five patients ith marked anients be and had Previous transfusious, five petients with checal Dubmonary tuberculous, in two of whom the contion was ctive t time of operation, and sir elem omenesch eurhing over 200 lb Complications and after-effects have been few and of no serious concern. The variety of operations performed by this method demonstrates that the block of the sacral nerves the entire prive floor is an exhetized with the vacces lying below the private

For these reasons the transmeral method has

been employed for the upper four secret serves, with

cocryptal fibers Complete operator expellant

resulted in 22 of 5 consecutive cases In the

three cases in which the agenthesis was not one

plets, it was rufficient for the completion of the

operation without additional lightration of the

low endural injection for the fifth sacral and the

perstonerm. The more dependent part of the pen toneum is also aniesthetized so that it may be opened and closed, but any considerable nell may be transparted outside of the appearhetized field and those Dain.

SURGERY OF THE HEAD AND NECK

HEAD

Murphy J B and Starm, E. Homoplastic and Hecceptastic Tumor Grafts in the Brain J im M du gre lunt, so

Shiral of T kyo reported that heteroplastic to more grow readily when inoculated into the brains of pormal adult animals. Previously trans had been transplanted t different species only in the embryo and in adult asimals which had been ex posed to the roentgen rays

The lymphoid cells are considered t form de feasive mechanism against touce grafts because Numerous lymphocytes occur about betero

plantic graft Foreign therees growing in the chick embry came no cellular reaction until after the earlicenth day of menbation, when the graft starts to desprear

morely and completely A graft of adult chicken spleen renders the embry resistant to beteroplastic timoes during the early stages of meubation

Adult anomals deprived of the major portion of lymphold teens are depended of their ability to destroy the foreign timeses in such animals grafts

a ill grow actively S Foreign tumors may be earned through several experations in irradiated animals

The uthor moculated transplantable mous sarcoms into the brains of rats. When the graft came in contact ith the ventricle there was a reaction which suggested the reaction cassed by foreign graft in the subcutaneous traines and was followed by pecrous of the graft. Of the grafts embedded in the frontal lobe at a destance from the ventracio, from 80 to 00 per cent grew in without

causing cellular reaction Mouse sarcoma was successfully grow as the brains of rats, guines pags, and pageons: A mones carcinomia used as acteroplastic graft graw has rapedly

A bit of the animal own spleen inoculated into the brain with the beteroplastic turner turne proented the growth of foreign cells. Of fifty rate mornisted with splem and tumor he per crack showed complete inhibition f tumor growth In 6 per cent only few of the tumor cells were left Of forty eight control rate moculated with sarrous alone by per cent developed tumors, some of which replaced almost the entire frontal lobe Spieux these derived from another animal failed to inhibit the growth of the tumor

Mice highly resistant to subcutaneous homoplastic transplants of mouse tumor gave no evidence of the resistance ben the tumor was morniated into the WALTER C BURET, M.D. brum

Harelly and Cleft Palate Federsold, M. N.

EXTU. 900 I ary percept 9 The repair of hareisp should be done as soon after

buth as possible. In most cases t is done at the end of the third or fourth week

Proper pre operator care is essential. The infant should not be allowed to nurse until the borders of the ho re brought together as much as possible and held by a stop of adheuve. The adheuve tane properly placed prevents the orbiculars one muscle from pulling the hp from the midline and increasing the deformity

In the operation for moste harely the lip must be freed from its attachment t the maxills. The bor ders should be so cut that symmetry of the nostrals as readily obtained with an investible scar and

milhon border with good contour

The entures should be so placed that the raw surfaces will be in contact without any curling or buckling of the edges. In order to prevent tension adheave is fastened to the cheek on each side. The edges near the hp are turned in ard. A strong paratim alk ligature is then passed through the tape into the lip, mid ay bets een the skin and muccus membrane, in the form of mattress suture By tying the loose ends, sufficient tension can be brought to bear so that the pproximating sutures ill not be turn out by the sphincter-like action. I

the orbicularis muscle.

Great care is necessary in operating upon a cleft In some instances mechanical ppliances are more efficient than surgical correction of the deft TARRES C. BRASNELL, M.D.

Simmons, C. C., and Daland, E. M. The Results of Operations for Cancer of the Lip. t the Massachmetts General Hospital from 1989 t 1919 Surg Gynes & Obel o xxx 766

In reviewing the results of operations for cancer of the hp during a ten year period at the Massachu-setts General Hospital the uthors failed to find any new facts in regard to the etiology of the conditton

The total number i cases vaulable for at dy was

187 The end result as karned in 18 Specimens from 3 cases in which the end result at those a cre also at the for study. An attempt as made to classify them int groups according to the degree f malignance as indicated by the differ entiation of the cells and the umber of mitotic figures It appeared from the results in these groups that, other things being equal, such as the duration and extent of the growth the amount of differentia tion of the cell has distinct bearing on the prognon, the prognous being better the greater the differ estration

The presence of pulpable glands did not necessar 2) men that metastase, had occurred, as in many cases in such the presence f glands was noted in the lustory pathologic examination failed t show cancer. The presence of demonstrable metastatic concer in the glands was a gra c sign

The first sign was described as a "sore or "cold sore in eighty-three cases, a scab in nineteen a wart or tumor in thirty-right, and a crack bluster, cut, or pumple in the remainder The presence of palpable glands had little relation to the size or duration of the tumor except in the obviously far

advanced cases. The gro th was situated on the left mile in fifty seven cases

The radical operation was performed in 199 cases In seventy-three, the glands were removed from one side f the neck, and in f rty-mne from both udes. The rollinting operation was performed in forty-one cases, the growth being removed from the hp authout desection of the glands f the neck

cases of radical operation there were In the three postoperati deaths. There was no operative mortality following the palhative operation

W th one exception, the postoperative complica tions were due t some form of infection

Secondary operations for local recurrence of the duesse ere performed to ce both of the patients are well three or more years after the operation

In seven cases in which the neck had been pre vacually dissected a second extensive dissection was performed for recurrence. All of these patients are dead to died as a result of the operation and five of the disease

The end results of the radical operation in ninety eight cases are known surty-eight patients are hving and well without evidence of the disease more than three years after the operation, twenty seven died from recurrence of the disease and three died as the result of the operation. The cures following the racheal operation therefore equaled 63 per cent

The relation of the size of the growth on the lin to the prognous is shown by the small percentage of cures in the cases requiring a plastic operation t close the defect after the excusor of the growth. Of fourteen patients traced, only four are hving and well

Of nineteen patients traced who had involvement of the glands, only for rewell, while of screnty-two without gland involvement sixty-three are well In many f the cases the ate of recurrence could

not be determined. In the only patient dying of recurrence on whom an utopsy was performed there as local recurrence only

The palliature operation was performed in forty

one cases I most of these the radical operation was contra indicated on account of the patient's physical condition or age. The results are known in thirty five cases of this group. In twenty a threeyear cure was obtained

The average length of hi of all petients dying of recurrence was approximately two years from the dat of operation. When the glands removed at operation showed cancer the length of hie was slightly aborter than the average With one exception in the cases of patients dying of the disease, the recurrence developed or death occurred within the three year limit. One patient died of glandular recurrence acven years after the primary operation

June C Brusser, M.D.

NECK

Pfahler G L.: Radiotherapy in Carcinoma of the Larynt, with Special Reference to Rudium Needles Through the Thyroid Membrane. J. Radiol. e. s. m., 21

The most recent method of treating carensons of the larynx consists in the direct application of several 3 mm tubes of radium following a preliminary itschediony

Radium may be applied to carrinoma of the larg as directly by four nethods. (1) the mierties of eigenvalues even into the Greated tisses by direct of eigenvalues even into the Greated tisses by direct at the contract of th

A disadvantage of the first method is that the enamition seeds are be missel, as occurrence leading to abscess of the leng. The sected method is contra understed if the timese are finable because under such conditions it is extremely difficult to keep the section in place. The insertion of section combinate was first timed by the cutibor on ordering and then seed ut; they case reported in this strick.

Litternal radi too. In the rocatigns on, was go not obeditable the pressay cancer cefu and metastate by naph nodes, and the radium was introduced bout a rek after the periminary trachect omy. The peedless were sternized by seepending them to boding water and or the anticache to sternize copper lighture were. The author states that sodies should not be employed in a ternhang the sham as it causes a dermuttur. The multigram notedles or because of the state o

The treatment ad ocated retarded the progress of the condition is the author' cases, but surten of the t enty-three patients alternately died of the discuss. The author drs is the following conclusions:

- t A preisminary trachestomy is descrable

 The rocatger ray applied externally gives at
 nortial relief of the ymptoms.
- least partial relef of the ymptoms.

 3. The martine of radman needles into the diseased tissue through the thyrobyoid siembrane is practical and its results partity further trad of the
- method

 4. As the condition tends to recur the patient should be kept under close observation for a long time

 Fact. W Sweat M D.

Kiose, H., ad Heliwig, A. Malignaut Strama (Dec. Strams scalene) Also Strams scalene) Also Strams of 2, 4, 787

I the vicinity of Frankfort about 3 to 4 per cent of todular golters become malignant. Carcinoma occurs most frequently in districts where gotter is

radensic A nodular gotter al 3 precedes the cancer and injuries to the theaes may favor the cancerous degeneration. Females are more often affected than makes of twenty patients, seventees ere women The condition occurs most fre accetly in the fifth decade of lif Most millerest erow the developing in gotter are carcinomats. The metastases occur chiefly in the lanes and the hours. particularly the spine sterpum, pelva, and the Tie development of the cancer is recognized by as accelerated growth of the golter an increase in his consistency and a decrease in its morability difficulty in swallowing, and, in the later states or culatory disturbances I the Mainress district the development of the symptoms of exophthalms coster is an important early symptom of malacast growth Occasionally high temperatures are observed. Cancerous cachera is rare

Exploratory principus is contra subcatted Large geocopy should be close only be experienced player cuts. Bioppy in justified only be experienced principus on the performed insociately alternative and parameters of the contract of institution of the contractive of the parameters of the found of the contractive of the

Reader C A Thyreldectomy A Modified Techulates J Am M Au e hale sold

Following resection of the thyriod we toe often see () a between understood beneath the flap () tender anothis here the depressor mercha sert suttered, () as amonying alleens between the tractices and sun the point of drawing which has caused intermined of the sur or (a) as bound dereposing of the sur or (a) as bounded and the statems and retraction of the side by the

adherent trackes. The wide presents modifications in technique designed to overtone these seporits. I gotten six medium size the extract his autison through the deep certreal laseas, reflecting the hitter at his lower layer of the size This permits sufficient retraction of the steroshyrot market to give the six his power of the consistency of the steroshyrot market to give the deep certain of the six market to they critical only to the deep fareal series the strendy only all strondy you can be access the strendy only and strondy you can be accessed to the six market to the six market properties of the strendy of the strondy of t

Adhenom of the platysma to the deep fairne as followed such offence by bean ay independent set that a defence of the facal to the deeper muscles, its order to prevent adhenom of the dam to the tracket the surkey present a rubber their dam through a showed in the rubben surveyed and to the rubben surveyed and the rubben surveyed and the rubben surveyed and the surveyed to the surv

sternal notes. This permuts closure of the ribbou nuncies over the traches and suture of the skin in the midine where it is thinnest and the platysma is sheers.

For hyation of the inferior thyroid artery Roeder makes a in incision in the ime of the full collar

incision to be made later. If the patient withstands the operation better than anticipated allight extension of this metison will permit resection of the lobe. Reflection of the deep fascis with longitudinal spliting of the ribbon muscles gives ample exposure.

5 | Secora, M D

SURGERY OF THE CHEST

CHEST WALL AND BREAST

Boll, P. Extrapleural Thoracoplesty in the Treat ment of Fulmonary Tuberculosis. Bril V J 9 4,14, 7

On the basis of seventy five cases of extrapleural thoracoplasty Bull comes to the following conclusions

In mulateral or mainly mulateral pulmonary tubervalous which is not cured by rational expectant treatment or by artificial pneumothorax, good results can be obtained by means of extrapleural thoracoplasty

The whole, it may be said that the indications for extraplemal thorscopiety conscile any design with bose for artificial picture. The said the form of the said that the s

Bull has done most of his work with the said food assembles but, is becoming more inclined to the use of grazini assembless. In the first, tage of the operation to recent a line the effects the operation to recent as the effects the other with which in the second stage; is or thress weeks later be resects the remaining upper risk fifth the fourth in his been resected the performancy synthysis which, in addition to collapsing controls in the aper, facilitates the resection of the upper risk.

Fit implantation after the method if Tuffier is done to compress the per stall further. Seven centimeters of the eleventh rib-- om of the tenth and annits ribs, 15 cm. I the following ribs uncluding the fourth and as much as possible of the upper ribs are reacted. It is unportant to resect back ward far beyond the costal angle up to the costal tubercite.

One of the chief unpleasant sequels is dyspace. This is due to a great extent t mediastical futter and soon deappears groutenessed.

and so a great extent t mechanism futter and soon dramppens spontaneously. The operation is followed by scohous with the converty toward the side operated upon, due to paralysis of the long muscles of the back on this

The immediat mortishity in the nithor senses of cines was per cent. A three year cure was obtained in about one in three

Rairs B Barnes MD

Rud, H. Fibro-Adenoma of the Breast in the Mule (Urber Fibroadesons der Mamma bei Mammern) Heip Tul. 923, kw. 53

Carcinoma of the male breast is not rare. Benign tumors are less common. According to Williams statistics regriding. 5.45 neoplasms, 4.42 (5 per cent) in object the breast, and of the latter twenty five (per cent) involved the male breast and only are were beauty

Among milignant tumors curenoma stands first the beingn tumors of the male breast are fibroadreoma, fibroma, adroma, lipoma atherena, my oma, tuberculoma, syphiloma, and cystic tumors Mystema, angoma, enchondroma and mixed tumors are very rare

Five cases of fibro-adenoms of the male breast observed by the utbox are reported. All of them occurred in men bet een the ages of 8 and x years. They ranged in men from that of a basefunt to that of a mandarun. In no case was the nipple retracted Malagnant change is possible in some accumulances it is not easy to make a decision regarding the presence or absence of malagnant from the histologic pactur. In the thoris opinion sharp demarcation of the timor indicates a bearing trowth only in the female. In the male, diffusely growing fibro adenomate are found.

I the differential diagnosis processatis and matths sphecemoun runis can be easily excluded in four of the five cases reported, trauma preceded in four of the five cases reported, trauma preceded tha tumor by from three seeks to eight months. Tumor frequently develope from chronic mastitus. While symptoms of mastitus are present the treat. While symptoms of mastitus are present the treat when symptoms of mastitus are present the treat ment about the conservative later the intens should be curseed. If the tumor is did divise growth, amplitudes to the conservative three three first of the tumor is creumscribed, extraption untuily raffice.

Press (2)

TRACHEA AND LUNGS

Balboni G M Hydetid Cyst of the Lung Berlen
If 6-5 J 922, dixxys, \$79

Echinococcus out of the long is one of the conditions to be suled out in cases of praintancy diseases the bloody govern or find hemophysis, especially among the sampared disease from contened Erope and Ana Minor Of the years the number of cases of echinococcus cyst of the long which have come t high has unconditioned became of the more extrasers one of the V-ray in the study of clear conditions. The disease is usually maisteral. In most cases it is on the right side and at the periphers of the middle portion of the lame

Hydatid cyst of the lung may be closed or open. The open cyst is one that has ruptured unto a bronchus or lung tissue. Expalsion of part or all of the contents of the cyst may corn. Membrane resuder and scotices have been found in the expectorated maternal. The centents of the cyst may be clear or pursient finid. A common sign is bloody sputtim or homorrhag. A

The course of the disease is chronic. Speciation, cure is very rare. The symptomic may armial those of almost say pelmonary infection. Not mits the of almost say pelmonary infection. Not mits the part repture or the inne become smanned will be privent become conscious of any trobale. Enterpolate the control of the properties of of

serious acquelar which may follow its rupture.

The author reports to case: The second was treated with the X-ray but there was no amprovement or change in the X-ray signs. Whenever

possible, the disease should be treated surgically RALPE B BETTVAL M D

Helmrier E. F. tal Conjentive Hemochesiae in the Lind and the Cartical Nervous Rystem Die t. Homentury Boddly Lustinos and Their Rahafonship to Pertha Pressure Conjention (Celer totalche Storogabbringers is des Lungaund in Zenthaervenyerse in momenture startus of the Conference of the Conjentic of the Conjential Conference of the Conjential of Technical Conference on the Description (February 5.1, Lo. 81, Lo. 81).

A case is reported in which poplety of the lune

with hemorrhages in the brain and spinal cord was caused by momentary oververtion. The clinical course and the autopay findings indicated hemorrhage due to active congestion in contrast to the hemorrhage of Perthes which is due to passive congestion caused by compression of the trust. Desirement 20.

HEART AND VASCULAR STRUM

Pleth, V Carried Sympathectomy as Means of Stopping the Pain of Angles Pectoria Am J Surg 9 xxxxx, 300

Jamesco removes the left cervical sympathetic terre and tageints to relave the pain of an appearance formed this operation the pain of an appearance in the four cases in which the author periodic the pain created introduction to the contract terreship to the seven out effects that the contract terreship to the seven out effects that the contract terreship to the seven out of the contract terreship to the seven out to the contract terreship terreship to the contract terreship te

The temporary application of Crile clamp to the common or the external carotid artery greatly

facilitates the operation by keeping the field blood-

Pieth concindes that the cutting of the sympathetic nerve causes a vasoparalysis with subsequent vasodulation which permanently floods the painful animum parts with blood

The operation is not regarded as cure for the underlying disease causing the impirit pecture, being recommended merely t relieve the pair. The suppression of this parevyens of pain does away with the trial cause of surfiels death it case if sortiles as it affects mainly the origin of the visit where the network of nerve is especially loss and

the pain is exceptionally severe Warres C Burker, MD

PHARTET AND OSCIPRIOUS

Steiner O. Multiple Cancer Fermation. Carchinome of the Vallecula Epiglettica and of the Esophagus. (Zer Kenton herbricher Kriebeldung Carmons der Vallecula tradition und des (Esophagus). Vol. 170 p. 278, 349.

The author reports t cases of carrisonators involveme t of the phrysax (villecuts) ad the craophagus in bith the t tumors were reparated

by a wide treach of health times

Care A tensor of the wallerda the zive of Min hot was also by boppy to be cancered with hystine of the langual artery the growth and phadwer estrapated under conductors assertion to splitting the cheek and reflecting the lower proquested. Death occurred on the sorth of proposementa. Autopay revealed a cancrad of smallhastologic attractor in the lower thand of the conlary. Except for an occusional stricture pass our the lower portion of the stream, there are 26

sigm of an encophageal tensor during in Cast A extrement of the complying was disprosed by the nee of bouge the Aris and compolagaceopy. At the visit stone at time of the villential, was found by larguageopy. Buyly showed that the timmer, or encoround of methodologic structure. Clinically there were as implement tensor of the villential.

the condition being duron ered only on laryagoscopic

examination. Only one case of multiple primary carringent of the physylic (longue) and the emphysics is reported in the literature Metastate formations and extensive metastate of the sense of the compared with common of the comparing with common of the comparing with common of the comparing with common of the physical common of the physical comparing the complexity of the physical comparing the comparing of the physical comparing the physical comparing the comparing to the physical comparing the comparing to the physical comparing the physical comparing the comparing to the physical comparing the physical compari

The relationship to evch other of the carraments of the campaigns and the pharvax m the cases of the cannot be determined. It is prohibe, however that in both cases the carcanoms of the

crophagus was the primary lesion and the car chroma of the pharynx a metastosis

Radical operation for a carcinoma at the base of the tongue or of the phury nx should be done only after it has been determined by careful examintion (sounding, roentgenography and particularly exophagoveops) that the esophagus is not affected by curenoms 50×rs (22)

SURGERY OF THE ABDOMEN

ABDOMINAL WALL AND PERITONEUM

Moschewitz, A. V. The Anatomy and Identity of Encysted and "Infantile" Herala. Surg. Grave broket 9 XXX 7

Hey first described infantile bernla several cars before Cooper's first account of encysted bernla. The uthor regards the nomenclature as without

All abnormalities of the hermal can be traced to fault closure of the processus gmile. In its descent into the errotem the testus is accompanied by the processus agnals perstoner. Mer the complet descent of the testus the agnal process becomes at to off the abdominal end and part

I here a into the funcular process the vaginal but not also this pol t. The tunes vaginal tests in some I. When abdominal contents pass through the open belom and end of the vaginal process a herma results. This form aboud be called herms into the superationacti vaginal process. It is histories declared to the superation of the state of the same and the absence of the sleader cord of the bittered ty mail.

Process on the beautiful of the gual proces has become ht fit the bdominal or proximal end but not be been first forms it descends in front of the cord and upnal process. If the vaginal process for the cord and upnal process if the vaginal process for the cord and upnal process.

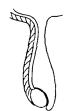


Fig Congenital bernia



Fig. Hermin rato the fessicula process

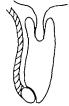


Fig. 3 Encysted herosa

abox the testis hile the intervening portion becomes obliterated to fine cord like tructures thin the confines of the spermatic cord, and the distal part persuits as the timical aginalis testis. The closure of the gual process does not follow

The closure of the gmal process does not follow any set rule

1 coopenial ingunal berns the processors agnals has failed to close at both the texticular and the bidon nai ends and forms are into which some unessual effort will force bidoning contents and thus form complete scrotal berns. The anthor believes that herms in the ginal process could be better more for the condition. This seems is characterized chiefly by the presence of the

bernia is characterized chiefly by the presence of the testacle within the hermal sac and by the exceeding thraness of the sac sax bulger ant the closed off a final process of produces the so called conject dermin. At operation the surgeon may open the vaginal process by mutai for the sax and a like surgeon and to communication with the general perticesed cut by The tree sax pertorate on the posterior all or the sax of the vaginal process. This form is all the sax of the vaginal process. This form is all the sax of the vaginal process. This form is all the sax of the vaginal process that the sax of the vaginal process is a second to the process of the process of the vaginal process of the process of the vaginal process of the vaginal process of the process of the vaginal process of

In infantile herms the maldevelopment is practically identical with that of emy sted herms but instead of becoming invaginated in the pre-

formed sac, the bernul protrosion descends behind the sac I the uthor's opinion there as no material difference between these two forms of bernis HATTER C Brester M D

Cappa, J. A. and Coleman, G. H. Experimental Observations on the Localization of the Pain Sense in the Purietal and Diaphresmatic Peritoneum Ank Int Med 012 THE 118

The uthors knowledge of sensation in the abdomen and its vincers is based largely on the careful and recessors becreations of other is estimators It is agreed that the bollow viscers and omentum at a no sense tion response to hant or cold t culture of t clamping

One investigator found that the parietal peri toneum & sensitive to irrit tion especially ben inflammation is present and from his experiments concluded that il viscoral pain is the result of infimmation and traction on the panetal pentoneum Another investigator his firmished con vincing troof of true second main (galanchaic) induced by tenson of the hollow organs, and in addition t this the sometic pain originating is a sensitization of the posterior spansi roots and a reduction of parallal sensitions along the corrie of the corresponding spinal perves to the skin and deeper theme lavers

The personnal membrane hauge the abdominal all has received less attention from experimentors than the meers, hile the perstoneum covering the under surface of the dispersem has remained absort force recognies to stimpful explorers who has been interested in charting reas of acrossing by

direct experimental methods The chief perpose of the studies reported in this riscle was to determine the localization of para due to stimulation of the parietal and disphragmatic peritoneum. The athors experiments were carried out by method preynomity employed by one of

them in the study of sensation is the pleared cavity After partial amenthetization of the skin th ťЪ trocar was mented through the ethyl chloride abdominal all until the end asoved bout freely The point was then withdraws and through the cannuls a long silver were, one end of which was beaded and smooth and the other relatively sharp

as passed Both ench ere slightly curved in order that they mucht be brought more carrly into contact of the abdominal wall. I the earlier experiments patients with assists were boses because the find distended the wall and facilitated exploration Recently however air has been injected method

which has proved barmless The results of the experiments re summanand

an follo a

The panetal pentoneum and it underlying arms, so it as explored namely all the antenor median areas and the lateral areas as far as the naterior asperior spines are sensitive to pais from the strong pressure of amouth point or the light pressure or lateral movement of rough point of ware

s The pain elected by stimulation of the name of persionesm is localized lith considerable accuracy by the patient, the error bener less than in

3 The observations confirm the conclusion of Remetreen and Lemnander that the parietal pen toneum is derived of breasure sense.

4 The pentoneum covering the duplyane devoid of the sense of pressure as applied by h contact or stroking with a braded wire north last is actively screen: t strong pressure with bradel point and t light contact with a rough point

 The location of pain from seminimon or on disphragmatic personnens is never in the disphragma staril It is also ye referred to some dutant part Stumplation of the outer margin causes diffuse year over the jower costal region and subcostal abden pain over sharply kmited point somewhere share the traperous raige. These impulses are doubtless carried by afferent fibers of the phresic purve to the cervical cord of the fourth cervical segment. The nam has not been noted along the come of the phrenic ners itself George Z. Bener, M D

GARTEO-INTESTINAL TRACT

Ribon, R. T. Peotle Ellent / Zahai 1011, 16.

The records of Au patients combined recal persologically for state-extending distorbances or ymptoms or mans relevable to pathology of the digestra system were studied in 163 rans the roentgen diagnoses as peptic ulcer. In ad of these the lesson was believed to be greaters taker and in deodenal aker. One bundred and tieves of these cases came to operation and in 1 3 of them

the A ray discreens was confirmed. Among the # 48 cases to which the disgrands was regains there were five in which peptite ulcer was found at langrotomy coult of these studies the author is con

meed that such indusert signs as variations si peristakes and retention beyond the great knots are of doubtful alor in the diagnosis of peptic sicer. If regards deformity as the one maining positive men More relance is to be placed upon the facto-

scoper examination the upon rocat perceptants. The latter are of also only as a record, for confirmation or for demonstration I to case was lesson depoisstrated romigenographically that had not been seen previously on the fluorescopes screen

Aroure Hannes, MD

Einhern, M. Peptic Ulcer Ith Defermities of the Viscon, E idenced by the & Rays, Characted for the Better by Trestment \) at M /

Val Ex o 70 6 1 As it is cleaned by some surgeons that the tree throug patric ulcer evidenced by typical chincal and roentgen findings can be cured only by surgical trestment, the withou presents twelve came of peptic alter in bach the results demonstrate paconvocably the success of medical treatment. In all of these cases constant deformation were seen on roentgen examination. Five sho ed a typical penetrating (callous) ulcer of the lesser curvature one a penetrating ulcer of the pylorus and six, constant deformities of the cap These twelve cases were treated by duodenal alimentation. Subsequent mentgen examinations revealed normal configuration of the stomach and duodenum. There was also a return of general well-being

A few of these cases are reported in detail but the histories of the rest are given in table form Roent penograms and outline sketches of the deformities before and after treatment re included in the

utide

On the bases of his experience the a thor concludes that as general rule most varieties if peptic ulcer even the graver forms are amenable to medical treatment Duodenal alimentation was applied in his cases as a good method of resting the affected part and giving it ample nutrition. Einhorn does not doubt that similar results may be obtained by other methods of treatment, but claims that ther methods take somewhat longer to effect a cure

ADOLPH HARTONG, M D.

Hammer A Ti Concer of the Stomach 1 lork
U J & Hed Rec 922 ctyl, 634

More than 30 per cent of all cancers in civilized man are found in the stomach. Heat is considered predupoung came Locomotive en by man poters whose skins are for years exposed to the best from the fire box of the engine develop cuncer of the less. Australians develop cancer of the face which originates from best irritation. Chinese men who eat their not extremely hot have cancer if the throat and orsophagus, while their wives, who est later and usually of colder race do not have thus

The percentage of cancers of the stomach originat ing in alcers as given variously. One uther say per cent, May Robson says 50 3 per cent and the May Clime, 60 per cent

Hammer mentions five types if operation done for gastric cancer but discusses gastrectomy prima rily For successful outcome t is necessary that gastrectomy be done before there is extensive ymphatic involvement, bel re extensive adhenous ha formed and before secondary growths has developed L en total removal f the stomach is in no w 1 incompatible with good health and long hi May o is quoted as reporting nine operations in which the entire stomach was removed, only enough of the gastric times being left for anastomous. Of 65 patients subjected to resection of the stomach one aved fifteen years after the operation and sixty two bried fit years or looker

May Robson mys, I cannot help feeling that far too glooms are is taken of cancer of the stomach for if the disease is caught early and wide excusion is performed, care being taken to remove the h sophatic area of the stomach with the glands along

the lesser curvature, results of a most favorable nature will award our endeavor

The roentgen ray is of the greatest value in the diagnosis. In 95 per cent of cases of gustric car choms the ray will show the condition before the development of appreciable symptoms. A persisting

angenia calls f such an examinatio P W Sweet M D

Cromarty R. P. Some Observations on th. Surgery of Duodenal Membranes, with Call-In Report of the Results of Treatment. Canadian M 411 022 23 876

Duodenal membranes were removed in forty cases operated upon at the Bucclow Charc in the last t o and one-half years. Such membranes vary from sheets closely overlying the duodenum and fixed at the omental and mesocohe attachments to dense cord-like bars spreading out over the duodenum from the liver or colon Those of the latter type cause distinct constriction while those of the former

type produce longitudinal puckering of the duodenal wall and interfere with its muscular function Duodenal membranes are frequently present in cholecystitis, but may o may not be attached to the

gall-bladder

A study of many cases demonstrates that these membranes cause very definite symptoms: In order of frequency, those most common in cases operated upon ere () gnswing or cramping pain in the epignatrium in 75 per cent, () tenderposs in the epignatrium in 56 per cent (3) eructations of gas in 50 per cent and (4) names or vomiting in 42 per cent Seventy per cent I the patients have hyper acadity of the gastrac contents. The condition differs from duodenal ulcer in that the pain is persistent, pulling and grawing and may be made worse by the mgestion of food jarring and lifting. Tender ness is usually persistent. Cholecyritis is differ entiated by the location of the pain and the tender point on the slin

The final diagnosis has been made on the basis of the fluoroscopic findings which vary with the ate of the membrane The duodenal cap may appear to been sheared off on one surface and will not fill properly The filling defect is frequently smooth and regular without the acute indentations found in ulcer The cap may be spastic and fill only under much pressure. The cap and the first part of the duodenum may be drawn vertically upward out of the normal location. The second part of the duodenum may be dra upward and to the right The findings show mechanical interference

Some cases have been diagnosed first as neurous or chronic ppendicitis with reflex gustric spasm. Medical treatment does not give rehef.

In the uther s opinion the membranes are usually due t inflammation probably inflammation of the gall bladder or that due t disodenal ulcer or local used penionhia

Surgical treatment necessitates free exposure of the duodenum. Fibrous or cord like membranes are cut parallel to the denotemen through rescalar parts, turnment, and then allowed to retruct after legation of the bleeding point. Membranes closely applied to the denotement must be elevated and cut without damaging the perionnel coat. The disdocum is in no w y loosened from its attachment. After all the membran has been removed the surface of the denotement so error with strength varieties.

The results in the cases operated upon as determined by a questionnum above (1) as imposes as a whole much improved, for per cent, alignity manyored, 55 per cent, each of per cent, alignity manyored, 55 per cent, cases, 55 per cent, (2) betching of pur present in 60 per cent, improved, 55 per cent (4) explaints tenderness present in got per cent, turned in 45 per cent etherward in 50 per cent and (5) assesses and continue present in 50 per cent, turned in 45 per cent etherward in 50 per cent in the benefice of explaints pain and tenderness, surpreal removal of the disorderal membraness gave the potent removal of

The author concludes that this syndrome, together with the fluoroscopic findings, establishes the entity of duodesal membranes, and that surgical measures

are pastified Walter C. Sveeter, M.D.

Jewesbury R. G. Two Cases of Duodenal Obstruction in Infrasts. Proc. Rev. Sec. Mol. Lond
one print, Sect. Stud. Dev. Calif. 10

Congressful atenoms of the doodgreen A full term female child, who was apparently normal at both, began to have tracks of projectal vomiting of bile-stained material on the third day. These ttacks recurred two or three times day bout one hour after feedings, with the exception of the thir teouth, fourteenth, and fifteenth days. On its admusson to the hospital on the nineteenth day the child was emacuated, eighing only 4 lbs o's or The legs were drawn up, and there as marked perm takes from left to right every half to one minut A rounded swelling extended from the left costal margin downward to below the umbilicus and to the right costal margin where small indefinite mass was felt X-ray examination demonstrated a greatly distanced stomach and dilation of the first and second portions of the duodenum \ery little food had persed after is hours. The child had small infrequent bowel movements, contrared to omit after feedings, and ched on the twenty-moth day

Noninortem examination aboved the stomach it be grown't hypertrophed. The prisons wus not thickned, but the prisons lumen was larger than normal. The first and second parts of the duo draws were distred and the duodent walls then end because of obstruction due to marked con striction in the third part. There as no evidence of external compressions.

Case 2 Congenital obstruction of the bowel the doodenopennal juncture. The patient was wested, slightly psindeed male child, aged 9 days, who had had tacks of projectal womiting of bits stained stateral since he was 3 d ye old. The stometh was dated and aboverd perstalass from left.

to right. The stools were intermediate between intercomm and a sulk rotool. After taking or of breast mill, the chief because meconstruction are wondered larger quantity of larger of the manufacture of the first and second parts of the doublement was suggested. In chief carried silter every feeding and died as the thartenth day.

A topy revealed a markedly distaid and bree trophed strongch and drodestern. Below the obdenograpat juncture the bowel was very wall and shrunken. The encoun was abnormally large such the larer. Obstruction in the deaderson was carefully by pressure from external structures, participally the right color artery. There was no absorated narrowner of the disorderen used?

A helpful factor in the differential disgnoss better pylone and doodenal obstruction is the bestunet yount into which spopers is doodenal obstruction. Thompson has seen three cases of polar riccours, continued by postmorten examistion, a which the vomitus contained big Market washes persistance occurs much little in pylone stanous than

in duodenal obstruction

The author believes that gustroje/mostomy is the operation of choice if the patient is seen early the diagnosis is correctly made, and the child is strong

enough to withstand sergoid treatment. The author quote Cautley summary of the clearacteristics of chockend stenous. You causing with the comal signs of obstruction in the clearacteristics are observed in the contraction of the contraction states of the contraction of the clear contraction without the important of food. In one cent of the case the vomities as the featured Harma tenners as not uncommon. Hantiton, watting, who constitution are marked. Dilaton and hypotrophy of the tonicals and the fine pure principles. Many of the cases are those of premisture infant.

WALTER C BURET, M.D.

Elemechmidt P. The Treatment of Carcinesse of the Papelle of Vater (Zer Bekanding der Carcinesse der Papelle Vateri) Destude met 5 chesche gaz xivin /

T cases of obstruction of the costmon bile duct by termor at the pupils of V ter are reported. Is both the diagnosis of neoplace as made after incuson of the unterior wall of the disorderest and erromination of the pupils.

The localization of temor in the common his duct can be retablished only after exposure. The retacall the best method of operation is rectioned to the discoleration from the prices up to the indeed bostnotial portion. From the pursuit of the production of the prod

Lane, W. A., Wangh, G., Gray H. M. W., Pater son, H. J. and Walton, A. J. The Treatment of Nen Bindgmant Affections of the Colon. Bru. H. J. 221, M. 4.

SIE W ABBUTHNOT LANF

All abnormal conditions of the colon are direct or indirect results of intestinal stasts. There are its groups those in which reaction is present, not those in which reaction is absent.

Stagnation of the intestinal contents in the pelvic colon causes the formation of bands on the under surface of the mesentery supporting the juncture of the line and privic colon. These bands soon develop into distinct membrane, the first and last kink which gradually contracts, fixing the colon in the that four and diminishing its lumen by angulating stand rotating ton talong axis. The fallowin tube and every may also become fixed by this membrane a condition which may result in extra terms preg macy tenlity cystic disease of the overy and particularly in pain on the left side t the menstrual period due to the passage of intestinal contents through an obstructed bowel over an engorged ovary Permstent obstruction t the ileopelyse rune ture of the colon makes this point common site of cancer and the colon proximal to t commo site of di erticulitis

The increased blood in the obstructed box I causes the formation of unitar membranes rem forcing the personneum where t passes from the abdominal wall to the one at surface of the boxed-missednictly above the slane create, as the splenn fearing, below the gill bladder over the outer surface of the terreinal factors as membranels and on the most run of on the terreinal membraney of the above the create of the terreinal membranes and on the create the contract of the original to the original to be about the create of the original to the original to the original of the original to the original of the original original to the original ori

Chappe at Goy Hospital The controlling ppendix is another earli of strain serried by load of execut, the pepedix becoming fixed by load of execut, the pepedix becoming fixed by defenous to the undersurface of the meantery. When the learn and occum drop mut the pelvit, the ideum is kinked sharply over the fixed appendix and more or less occlusion results.

The second type of intestinal stass as character yerd by entire beneated tendency t form limiting baseds and membranes. The pelvic colon becomes greatly clongated tortuous. If facted by reason of the attempts of the organism to expet its contents. Because of the obstruction of the lower boxed, the

proximal colon becomes elemented of prolapsed so that it may t as and obstruct the end of the so that it may t as and obstruct the end of the learning the bowel or anchoring t by Wargh a method. The barrotion to the passage of intestinal color results in colutar practice contraction of the color results in colutar practice contraction of the masses all, and till further mechanical obstruct has a finne there is no default apont of obstruction,

cancer does not commonly develop from this type of intestinal tases

The operative treatme to of the first type of stasis is resection of the bands which form the first and last lank, followed by careful peritomization of all law surfaces. Other bends, it present, should be divided. If the membrane forming the iteal lank is extensive a farancy to be sleft in position because of the presence of septic organization in the divided imple useds of the membrane II divirculative is present, the divided end of the items is pointed to the peritor color. Occasionally the diseased area is resected and the promisal boxel pound it the pelicolor in the peritor of the pelicolor in the peritor of the pelicolor in the pelicolor

In the second type the best results are obtained to colections or by anatomous of the item to the pelvic colon. If old this is present it is possible to resect the volution or to perform colectomy. The same treatment fails to the colonial formation of the colonial formation of the colonial formation of the colonial fails of the

GEORGE WAVOID

The colon, subject as it is to constal a tecretions of intestinal contents, must be perfect in its development to a thatand the strain which gravity imposes upon 1. Imperfect development of the colon, omentum, bilary apparatus, and small intestine must be carefully studed in order to under stand and correct functional disabilities of the alternative trains.

In children under years of ge examined post mortem by Stallman t the Hospital for Sick Children, the following structural v nations were found in thirty eight, the youngest of whom was month old, there was a complete prin in mesentery

the according colon in nine, the youngest 2 months old, a long primitive meentery to the flare and pelve colon in fourteen, the youngest 2 months old, Lane a parietocolic membrans and in forty five a curril meentery to the gall-bladder. In one the occur was under the liver

In every one of 88 adults and twenty two children operated upon since December 019, the ascending colon had retained to primiti a mesentery In 77 cases the entire ascending colon could be lifted out of the abdomen and placed upon towels to the left of the midline in thirty-three it was bound down strongly at the midpoint, the primitive mesocolon persisting in variable degree bove and below this point. This fixation as caused by an opaque, son-vascular band passing from the antero-external surf ce of the ascending colon to the paraetal wall When the band was cut the cellular towns covering the quadratus humborum was exposed. It had no features in common ith Jackson's membrane, being the structure described by Lane in 1903 as the parietocolic membrane

cases of the operath series the entire colon in) in the left flux form and the left side of the priving and retained a prunitive dorsal meacatery throughout its length. In five cases the carcum lay mader the liver, in three of these the colon passed directly t the left from the carrier and the omenium arms from the entire borizontal loop in the other t the colon dropped bruptly so that the bepatic Sexure h in the pelves. In these fi terminal sleum made a steep vertical ascent to reach the creum and was retroperatoneal in this portion of its course. In t o cases the colon was completely rotated, but had dragged with t an opaque mem-

brane which covered all the remains a morra except the stourach In 1 8 cases the transverse colon his at or below the secral promontors. The degree of associated prolapse of the stomach as anable depending upon variations in attackment and the length of the

ementum Prolapse of the stomach Ithout protree of the colon was pever seen

the rectum

If the these variations of position and mobility the colon showed strophy and dilation which invol ed the ascending portion a every case the right half of the transverse colon in ninety-eight cases, and the entire trams errogolous therry cases. Similar changes were found in parts of the descending colon hich were axcomirely mobile I fi e cases, all those of persons under to years of set, the entire colon was trouble and dilated from the carcum to

I the majority of these cases the initial as mptoms appeared between the ges of 18 and 15, and con usted of persistent discomfort in the upper balf of the bilomen lisch gradually in the course of a year. merged into pain generally poted in the upper ball of the abdomen, but subject to variations in distribution, conduction, and character I nmety seven bich frequently cases there as a husber paul. could be relieved by the assumption of the hori zontal position and the ingertion of food

This fact, taken in conjunction with the fact that the hunger pain appeared constantly at 4 clock in the afternoon and in the early hours of the morning,

tune t which the ascending colon is filled with food, suggests very atrongly that the pun is caused by the downward pull of the loaded color on its mesentery. The relief from pain afforded by firstion

of the colon further confirms thus see

None of these patients had deodewil alores. hich could be found it operation all had lost eight I only twenty eight cases had constitution preced ed the other troubles and in most of them is appresence was delayed for four or five years after the beginning of the trouble

forty it cases the appendix had bet remo d fis the gall bledder had been drumed and in ame a gratrojejunostom had been performed

The operat procedures curried out in these cases were as follows

I all of them the ascendag colon as fixed to the posterior belommal wall to the normal position

The trophic right half of the transvene colon was fixed by Colley's method in ras the vestral secentery of the gall bladder found in arrenty-arcases was cut away; the gastroleranostomy meas was undone in six. The appendix, still present m 164 cases, was removed. In four of these it was obviously discused A total colectoray or a shortcircuiting operation as never done. The constitute mortality (including soll cases previously reported) was less than 1 per ce t

Late complications included eight cases of lates timal obstruction due to adhesces. but were caserved during the past leven years. In mx of these a knuckle of small bowel was adherent to the under surface of the laterotomy wound, and in two the

omentum was adherent in the pelvis

The result can be grouped roughly as labore, praprox ements, and apparent cures. Twesty patients report they are no better. A second group, though not enturily free from their old symptoms, age bers materially benefited. Amety-right, after periodringing from eight to five years, are entirely of The rat of improvement has been slow in sems and abrupt in others

The resentual principle involved in the tail is that in many cases innersional doubship of the eastro-intertunal tract is due to consental structural defects which finally reveal their presence by fathers of function. The removal of these defects and the substitution of a normal for an abnormal readition affords the executor) condition for cure

IR H M W CRAY

Scace the first part of the colon sets the race for the rest of it adhesions and hands about the cercum and ascending colon are of primary an portance. That pericologic disesions are formed in the process of development as indicated by the work of Bryant, who found bands such as are describes by Lane in all of the male I tuses and in \$7 5 PC cent of the female fetures he examined.

As the menum descends from the subsepare region in the course of normal divelopment, the larg th hich the terramal Beam and asmesentery cending colon are originally provided, becomes fued with the peritoneum of the posterior abdominal all delty in the descent of the curtum occurs this fu non having already taken place, may beteriere ith the descript. The resulting brormainty—whether

membrane membrane reaching the antencerators border of the sleam and rotating it on its long axa. or simply mumber of fibroos tags represents the beliance between the downward pull of the current and the tendency of the sleam to remain fixed

The chief came of nea descent of the cacase is invol ement in an bearmelly developed right mar gin of omentum If the carcum overcomes the obstruction, the affected part of the omentum is drawn out into Jackson's membrane. Usually this new bran can be traced below and internal to the enterior longitudinal hand. I the edult it does not often reach the execum. Above, it is attached to the posterior abdominal all below the liver occasonally t the under-surface of the li er extern I to the gall-bladder and to the adjacent a terror ab dominal all as well It varies greatly in obliquity

length, ad thickness If the descent of the excess is returned by omental adhesions, the appendix usually comes to lie in a retrocolic or retrocacul poutson, external to the escum If the appendix hes internal to the excum t may become in ol ed in the obliteration of the terminal mesenters of the ileum. Thus is the origin of the type described by Lane as the controlling

apendia.

Gray's expenence differs from that of \\ ugh as Gray does not often discover a true ascending mesocolon, but finds that a more or less definite Jackson membrase is constantly present. The bootmal drag of the cerema and colon upon the right margia of the omentum causing a potential construction of the pylorus and duodenum may account for the symptoms referred to the right upper quadrant in there cares

By consistently securing an dequate exposure performing lanarotomy Gray finds become lities t one or more parts of the colon in the majority of his times. On the other hand, is apparently normal colon, as outlined by \ ray examination, is fre quently present in patients suffering from chronic constitution. The latter is due in Gray a opinion. to lessons of the upper part of the gustro-intestinal tract more freque by than t disease of the colon

The symptoms ascribed by W gh to the drag of a heavily laden colon, and frequently assigned t the stomach, duodensm and gill bladder often appear within a few years after the patient has begun to lead a sedentary life. They begin a the loss of tone of the abdommal muscles, which is doubtless shared by the presculature of the alimentary canal A large th these ymptoms can be

number of patients

beined by operation

The conditions commonly found at operation in each cases are the absence of disease of the gall bladder duodenum, and ppendix, and the presence of pentoneal bands such as those just described, with a mobile dilated, hypertrophied execum and ascending colon and pathologic ppendix it is not sufficient to remove the poendix and divide the perstones bands. The execum and color must be fixed in normal position, as as dvocated by Walms in 1908 If the patient condition permits, this is now done in the course of laparotomy in every case of mobile carcum and ascending colon

In performing this operation the filmy times behind the colon should be removed so that the colon may form firm adhesions to the posterior b-dominal wall. The hepatic flamme abould not be undaily kinked by the upper sutures. The circums and colon are usually phrasted in longitudinal direction by catching the anterior and external longitudinal bands in the fixation setures so as to narrow the carcumference of the box el.

II J PATERSON

In many cases of intestinal tasis the symptoms a mainly gustric distention flatulence pun after enting, occasional vomiting absence of free hydro-chloric acid. Relief of the status by a short-circuit ing operation is followed by symptomatic improve ment and the return of the secretion of free by drochloric acid

The chargoal test is of albein determining high cases of intestinal stass should be operated upon In the beence of definite evidence of a kink or a dreased appendix, operation is not indicated unless the appearance of charcoal taken by mouth is de-Deductions dra n from layed for four day roentgenological and bacteriological examinations should not be allowed to ut eigh the evidence

afforded by this simple clinical determination If there is definite exidence of kinks or obstruc-tion urgical treatment is indicated, but if the stans in due to atomy of the large bowel or the presence of large mobile calcum it can usually be corrected by methcal and mechanical treatment The di mon of bunda is satisfactory operation unles the bands are cry extensi e. In the latter case, because of the danger of postoperati e ilens, colonic exclusion is preferable. Ileosigmoidostomy is an unsatisf ctory operation because of the accumu lation of faces in the inactive transverse and as ending colon. In twenty of forty one cases it was necessary t perform a second operation to remove the colon bove the decoagmost anastomous. The results of partial colectomy as far as the relief of symptoms is concerned, are excellent, but in six of t enty seven cases second operation wa pecessary I ter for the rehef of intestinal obstruction Paterson has never performed a primary colectomy but of the t enty patients on whom colectomy was performed secondary to ileasig mondostomy was developed intestinal obstruction Because of the danger of this complication, I tal colectomy is contra indicated in the treatment of intestimal states. With egard to the value of fixation

of the ascending colon Paterson is skeptical The operation of colonic exclusion is performed as f Nows

The sleum is crushed and divided with the cautery t 6 in from the deocecal valve and the ligited chatal end inverted a th a pursestring suture. The proximal ileum is then joined t the side of the sugmord, and the stump of sleum distal to the an astomora is inverted so as not to lea e a blind pouch The segmond is divided in the same way I in above the amatemous. The closed tube left behind, consisting of the current and the ascending transverse and descending colon, is drained by bringing the appendix or carum to the abdominal a all and tying large catheter in the crecum

Of nuneteen cases in high this operation was performed the results were excellent in sixteen One patient died sixteen days after the operation from suppuration in the right iliac fosse, one died eighteen months after the operation from perforathen of a tercord uter and one has had attack of p from time t time due t di tention of the cocum with gas

The operation has all the advantages of inlections without the danger of later intestinal obstruction

N. I. WALTER

kinks and brod are not so common as has been sweetested. They are usu II congenital admay be found in very voune children Symptom of chrome tays arrear chief 1 ether but the b ads and membrane described are equally common to males and females. Plosts dos not percuants we stall PI PI omes who ha h differment recogniscies and he how newfound dogree of plank do not ke symptoms of law The explanation of the increasing fremence of cereptories young ocean today may be in the lack of der logeneat of the involuntary munica

Stalls i reducal disease Operation should be performed only if medical treatments. It had but tell adopts i ery diameteración by a saot relevad by remos for the appendix of it two of the exemple.

Richter J. Atypical Operation—Caperally, Mad Subsead primy then if settlines in the Typod the Appendix-in Caser of Server Adherdors. Doe C. Appendixtin Cetter I purk to Operation, Leonderbert elsen Fall von the stater 1 is more Leonderbert elsen Fall von the stater 1 is more for schwerzer Adhardorol. Sang darch Appen deut in Deutschetziehe f. Lair 6 1 4

I a case of sever districtal softwares but en appealing and small intertune and letters the small intertune and either the small intertune and either the best of the entry complete negatives of several and either the small intertune and the several and either the small intertune the first of the small intertune the small int

Although there has been much criticism of the mag procedure in bits, in severe cross of all bestoon, the entire open-thic after bring exclude its fit in the behound or my the nature and pror mail end of the apprehix being bood by settler report of the contract of the settler behavior of the contract o

Carter R. F : The Pre-Operative and Fostopera the Tre tment for Colon M distance; A Twick W. J. St. Med. Rec. (0. h.) 199

Co-operation of the surgeon, the internal the bit-tendogert and the physiologist is essential for success in operations on the colon for millignates. Complete obstruction of the colon by a growth must be related at once by operation regardies of the pittent reporal condition. A greath at production have may cause symptoms of obstaction early last a growth to the night shife of the large lovest may true. Considerable use and form inclusion before it produces symptoms here as the rectues of its part of the crede in liquid or example of the part of the crede in liquid or example. Cathard and britistics will decan the large band will consider the produces of the part of the crede in liquid or example.

Learway of the borrel promost to growth is the left half of the colon is much more deficill problem and an is accomplished only by estable for an initial arms promosal to the growth for external degarage and irrigations. In the Bosens of the Colon of the Colon of the Colon of the second to the absorptions of the Liquid between greater and hand masses of faces are formed which all not pure the obstractions and resyst all forms in

all not pass the obstruction and reast all forms of part ten. The complete removal of these archala and the leaning of the sion of septic natural as the most important step in the preparation for t issue of the growth.

C the mushould not or be deasted and about lactor proceeds pediuments operation is the presents of part if obtgraviton or itempted during the last thirty is hours before operation. It feeshed preduce quarters of the colon during the operation,

punful contraction alterward, as I debutation.

The portion of the bot of dutal to the growth is livet cleaned by injecting 6 to out of oil followed in right bears by isospisal circum given and forestian is 6. A solium bandrost error is then given and repeated duhon till four bears provided to the operation.

I normal don the influence of the bottem dominaries the outerals between more self. It the presence of an obstructura growth the entire done prounds if the growth between I would breeding ground for underst bottem. Drawing with the data posturated the growth between I through the control of the based control If this carnot be a complished through the rectura, in artifactal seria should be wishbothed.

Mits the operations are of assemblers followed by Jam horse-contrapt for least-vigate boars with the second process of the anatonomes of normal board and we manticoness of normal board are we mentioner case streams if produce parieties produced strength of the produced designed with the produced about the second process of the s

pun, but pum in the ound for I seek drift after the operation suggests ound infection and chipping after to III gri instant rel of Paud I externation may be releved by the applies than of perforation to the would are.

The administration of find is the most important postoperative chanderstom and should be begun immediately following operation by hypothermody as with a 3 per cent givens solution given under the breast e in the faint. It may thus be per along over a long period of time. Four ounces of faid may be subjected into the rections at safety every four hours if the superior is preceded by the passign of a colon tube. Citosce and sodoum bear counts should not be given nature recovally unless a themical smally use of the blood is first made. When a blood analy are in not made, normal salur should

Conting after ten hours is due t acute dilatation of the atomach (hich is nare) neurous, acidosis, o peine personalis. Specific treatment for the ext one will clear it up quickly. In other cases gratte lavage will pe reful. PACU. Yours AID.

Collins, F. k. Aseptic Resection of the Intestine
Ass. Surg. 19, 2, here. 759

The method described for a expite resection of the finestime in a method of end-to end anatomous and amendate restoration of the intestinal humen by the set of a removable looped highran. The operation as a modification of a procedure deviated by Historian as the best of the procedure deviated by Historian as the best of the butter of the intestina as the best of the abutter and processor of the intervening displaying by means 1a kmf modification with the conditions and method the first method and the conditions are the first method that the conditions are the conditions and the first method that the conditions are the conditions and the conditions are the conditions and the conditions are the conditions and the conditions are the conditions and the conditions are the conditions ar

Horms, C. F Asseptic Technique for Resection of the I testine. Ass Surg 9 15xx4, 745

In the author' method of reacting the interims expicially the portions of it gut promail and datal to the portion to be removed are included in the position to be removed are included in the means of a private integration of the objects of the continue to begun at point dutail it in increasing so that when it is need the knot will be about facing the operator. All coats if the intestine accept the monomy coat are andioded. A lamp a kinn placed bet een the two pursessing minimals of the method of the metastic it be resected from each end of the metastic it be resected. The metastic in the coats of the metastic in the resected from the coats of the metastic in the resected from the coats of the metastic in the coats of the place the coats of the place the pursue that they may release the purse sing at a little stage of the operation.

The prountal and duals stumps are then brought in appearon and punced by interrupted matters, searer of intestinal still. The release stumps are curred out between the matteres sources, and as the condition of the proposition of the condition o

This operation has been performed on ten dogs and two patients

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The article contains unerous illustrations
H W Free, M D

M 1 3 J R Invol ement of the Lymph Nodes in Careinoma of th Rectum 188 5 72 9 2, icm, 755

Rectal curenom to are the most common internal peroplasms and constitute 4 per cent of all cancers. The m jorny of p tients are in the arthur decade of the The modesce of the condition is signify greater in males than in feruales. The durance of the group than 10 the symptoms is unally less than one year. The location, I the growth on the rectal wall varies, but the interner and posterior walls are involved with bout equal frequency. The greater number of the growth are found between the ampulla and the rectongmost juncture. Adenocarmoons is the glands usually takes place slowly. The liter is the organ most often affected by secondary growths. The other organs of the body are only growths. The other organs of the body are only rarely affected.

The size of the growth in the rectum cannot be reind on as an accurat index of the probable lymphatic involvement. The neoplasms without lymphatic in obvenent tend to grow into the himen of the bowel, while those with slight lymphatic

wok-ement tend to spread by direct extension and grow slowly Caranomata of the rectum with extension involvement of the lymph glands tend to metastasize through the lymph streum early Occasionally instastases may be formed by embolibreaking off int the portial emis

Metastatic involvement of the lymph glands can be definitely determined only by systemistic morroscops study of all the regional lymph nodes. The size of the lymph nodes in not an accurate indeed metastatic involvement. This is especially tree if the involvement in alight or the process in in the entry stages.

In carenoma of the rectum, as in cancer of the atomach systematic microscopic examination of all the regional lymph nodes in the best method of establishing an accurate prognosis.

One hundred specimens which had been removed to operation at the May. Chare, ore standed Sar hundred and twenty-three glands were obtained from those specimens. In 33 per cent of the specimens there was no glanditate anothernest in 50 per cent alphit glandidar involvement and in 17 per cent, marked unvolvement of the glands.

Quinland, W. S. Congenital Maiformation of the I testine—Arrows and Imperforate Anus. Bases M. & S. J. pp.3, cincrut, \$70 Quinland reports and analyzes trenty seven cases

of cooperated insiferance on the manyers treatly seven causes of cooperated insiferance on the intestine most of them unpublished cases from the Amaterical Mosern of the Harvard Medical School. Imperforate area, the most common intestinal

asomaly is due to imperient union between the rectum above and the posterior part of the closics common to the unogenital aperture and hadges below. The snal aperture may be separated from the rectum by mesodermal tissue an fack or more in depth as the result of insufficient invagination of the ectoderm to meet the rectum which may end blindly above or communicat—th the exterior by some massial opening

In another type, the embryonic snal plat per sain without the sightest invagination of the skin in this reviou

In case of incomplete separ tion of the closes to form the unceptual man and rectum, the rectum opens into the bladder or more commonly in make, muto the presistate or membranous oretime. These cases are frequently unrecognized. More unsural openings of the rectum have been recorded In one case the intentine was directed upon and and opened under the border of the right scapula. In nother it

mounted from the pel is through the chest and neck and opened on the face

Of the various hypotheses as t the curve of treas the theory soort commonly accepted is that advanced by Tandfer. In the embry of t mm the get is divided into compruments by septs of proiderating induce establishments by septs of proiderating induce establishment way be conjectely or classic by the embrys of 30 mm, the compact of about 12 mm be keemen may be conjectely or classic by the theory of 30 mm, the compact classic by the theory of 30 mm, the compact control linears are established. When some of the septs fast I disappear a more or less complet or classion of the grit pressuits.

There may be many forms of this defect resulting in bind ends not attached to each other or attached by straid of serous minculars, and relevance or small problemal tries posing the bland ends in some cases a sulformation which as on promily stenous develops into attract, a change which exceeds to the fact that merconom is sometimes found datall to the attract Artesia of the internal trick, but is much company location is the dysolonum and the

jejuno ileal regions. This is probably one of the rare forms of congenital mallormation.

ux dav

The prognosis is gra e on account of the complications, vis. harmorrhago, peritonitis, and septi-

Became of the probability of an according rephritis, it is usually wen in case of imperferents area in which there is connection bet cen the lower cond of the rection and the hidder I restrict operatures measures to permanent colorony rather than to attempt to separat the rection and bladder II the child is female, the prognosis amore favorable, exponsilly of the rection/upon lope ing is of furly large ser. If the occlosion is high up in the small firsterine death unanally occurs in five or

The treatment is surpoid and must be adapted to the programment of the particular case. The permetal approach is conceined full because, as the measurment be relatively about, it is difficult for the sargron to explore the deeper pensasi structures (and the rectom which may terminate high in the pelvis. In such event, enterostomy is necessary to 5 percent.) LIVER, GALL-BLADDER, PARCHEAS, AND SPLEEN

Gordon J. K. Construited Obliveration of the Bile Ducts and Googlenited Billiary Circlesia of the Liver Bettes M & J. J. e. diczyw, 913 Trom a review of the interature Gordon des. the

following conclusions

Mild or severe curbosis of the hver is found with

congenital obliteration of the bie ducts
A congenital bihary curbons of the liver may

occur whoost congestial obliteration of the bir ducts and is not a result of the latter conclusion. In view of the there has kopelens outlook, companiinterference is advanable in all cases in which poetry disposes of congenital obliteration of the bile duct has been saide.

II A Vickmoore M.D.

Geopel, R. Can the Kahr Decknape of the Repaire Doer Be Replaced by More Complete Precedure? The "feed Choleff before;" (Lam & Arthribe Hapatenschalings derek ein Minnmaners Verlähren netzet werden Die nells Cole lebetome) Mussches med H laude 1412, Lox, 44

The author ducesses the deficiencies of kele dranage of the beyarde duct. The measures so far suggrested to overcome the difficulties his berunancerestful because dranage to the surface of the body is bused on false principles. Dranage should occur into the deorderam: hack as physologically come to the deorderam hack as physologically hen there is permanent and consistency to the hen there is permanent and consistency to the the common blue duct and the doodecams.

Sitting of the rosemon hile duct begunding at the doordening price good results in cases of eight or calculus and about he should be done mixed of dramage of the beyont color in cholungars and case of better so of and stones in the common his duct when there was a supplied to the common his duct when there was not save to be left behind I it is inducted also it cases of disktone of the common his duct without stone (paginting, papersetting).

Another procedure of value is the formation of an ansatosons as thek as I and parol between the common but diet in the diodentia is the early angle here the common the diet is the diodentia. It is indicated between the such common the such common the such common the such common to the common that the such common that the s

Licitionatuse: The Relationship of Surgery to the Diseases of the Preparational Systems (be Benchmapus der Cherargas as den hepstelminis Systemericanium speed). Dische f acres Farinist 9.1, 17, 52

General anasthesia should be osded in discuss of the hepatohesial system as chicroform has a any trace effect on the liver and large smooths of have also proved injurious. Operative proes in such cases should be curried out under anesthesia combined with twilight along os ith disease of the hepatohenal system are et also to hismorrhage during, and particularly

ung operation employed the intermed to the treatment of our boss by the Talma tool to the treatment of our boss by the Talma toon in disease of the spiken, the conditions one is orable as the spiken may be estimated more a permanent result but a understed as a time measure. Bunis a disease and familiar by the kiterian are approached, council problems to the measure of the spiken does not be a spiken does

be uthor reports a case of Bantis disease in the operated in the first stage the blood pic and the general condition were considerably oved by the operatio Rims (2)

os, P. A Case of Torsion of the Gall Bladder (Em Fall on Gallenblasentormon). G \$53 frat 0 lm, 434

he patient woman 7 years old died with the ptoms of hemorrhagic colitis. Whe the ab mal ca ity was opened t utopsy markedl reed gall bladder was found with pedicle which unated at the functure of ta middle d lateral ds The gall bladder as t seted around the cle and as necrotic Surrounding the gall ider as carcumscribed some of peritorntis one w days old, and around the inver duodenum gall bladder a proliferation of connect that to chronic inflammation. Peritonical reduplica. a stretched between the duodenum, liver and bladder. The transverse colon and the sigmoid a trikingly long mesocolon. The latter ma-e been congenital anomaly. The colon showed emorthagic colitis which had been present for ceks. Tw. day before death this condition ame gravated and there was severe abdominal bladder The condition was not chagnosed TE RULODEY YON LO WATER (Z)

ake F The Ascaria Lumbricoides in the Billary Tract (Der Spalwarm in den Galleawegen) Hel Klin g zvin 7

The author states that the presence of ascardes the balazy tract is by no means rare and that ce the World War reports of such cases have

ome more numerous.

A case is reported in which incurceration of gall
me was suspected because of pain under the right
tal arts but 1 operation an ascars was found in
crommon bile duct and no stone.

The most important complications are obstruc as of the common bile duct, chokingths, and pauc becess Franke concludes that in every

case of disease of the biliary tract a search should be made for the worm and its own. In the presence of complications immediate operation is indicated 80 NYLOS (Z)

Gorkery J R Chronic Catarrinal Cholocystatis with Lipoid Deposit. A Surg 9 hxvs, 736

Papellomata of the gall bladder occur as single or m ltrple lenous of the mucosa. They appear as white or yellowish bunches of grape-like bodies from 0 5 to 5 mm in diameter insecurely attached the mucosa by a very slender filament of throne The cellular changes are identical with those found in chronic catarrhal cholecy stitus with knowl deposit, namely fish scale and strawberry gall bladder. The lipoid substance is seen in large polygonal cells or round cells in the submucess and in the walls and lumina of blood essels. It is untally deponted in the form of fine granules. Round cell infiltration p noted in amounts proportional to the amount of lipoid deposited. The picture is that of an acut infection engrafted upon chrome infection E ery case show fibrons, especially about the villi. The villi becom broader t the base, shorter in the long axis, and enlarged at the tip so that they are almost spherical. In the firmation of a papilloma the base of the villus becomes narrowed to a slender filament change which tends to cut off the blood supply and therefore favors necrous and exfolia tion of the papilloma. The only apparent differ ence bet een strawberry and fish-scale papilloms of the gall bladder as the shipe of the yellowish white masses

The chuical hattery the surpoid findings, and the protoperative results on cases of papiloma to industinguishable from those of strawberry gail-bladder and fish scale gail bladder. The author believes that pupiloma is not, proplasme but the result of throne the straining and ministom and the result and the section and the result and they are considered they are considered they are the straining the strain

Levis, N. B. C., and Recover F. A. A Contribution t. the Study of Connection Tussus Changes in the Gall-Hadder V. Levi H. J. & Hol. Res. 9. crt., 640.

This article is the report of case of cholehthiasis in an minne some 48 years of age. The walls of the gall-bladder sho ed extensive connectivations changes. Mitothe figures were not numerous but there were areas in high mitosis was an out standing feature.

There was no metastases, and the infiltration was lamited the surrounding structures, the liver and the cystic and common ducts. The authors hestated to diagnose the condition as surrous although they felt that they might be dealing with growth close! resembling my rocarcons hich n wally above less tendency to metastance than may of the other forms of mahgnancy Part W Saret M D

McClare, G. R. and Jones, C. M. Studies in Pancrestic function. Rodes M. & T. J. In vol., on

Discretabilities in the enzymatic action of the dissolvant conclusia were found by the a those in cases it has negatic lection favoling the process primited or secondarily and be eased to shalp the cluricity oper the critical control fluoristics of the relative fluoristic process. I need that fact we entered fluoristic of the approximation of the particle or it dects, and that the unobsequent of the particle or it dects, and that the unobsequent of the particle or it dects, and that the unobsequent of the particle or it dects, and that the unobsequent of the particle or it dects, and that the unobsequent of the particle or it dects, and that the unobsequent of the particle or it dects are considered that the easy of the control of the particle of the terral accretacy function if the materials of the terral accretacy function if

In airshing their and persucion ment no homematures in the activity of the caternal section for the programment of the puncture as measured by the enzyme reoccutation of the duodreal contents or demonstratible. These findings suggest that the presence of hydrotchione and is not necessity for the sillegibles of normal properties accretion.

The e ternal actretory function of the panreas was found much depressed in bronic p noretui

Uset practicate necrosis, cancer of the head of the patients, as I lesion obstructing the patients due tiere accompanied by marked boormakies in the majoratic action of the doubt if contests (Raintel Reuns caused) or wind decrease while acuts necroos assailly or sed discourtion. The estimation of the extransitie action of the

The estimation of the enzymatic action of the disolenal contents furnished findings of alize in the differential diagnosis left cen beingt and mahgna t become comme obstructh, rundice

lesson enuming observerth joundier.

Acute and home holes status and infectious painting or accompanied by dissociation of ea-

arm tir action of the dworken's contents.
The method and by the thors t and the

dwollead contents as as follow: I dwollead contents as as follow. I dwollead tube as allowed t enter th second portion of the dwollead method to the processor. The patient as then need a case of so per cent cream in the bar span of case of so per cent cream in the bar span of the sollowing the s

cottoneced oil, and determining the amount of

acidity developed by intraining with tenth normal alcoholic solution of notions bydroxide. If A McAccert M.D.

Bournan, H. A. H. A Pancreatic Crut in the Left H) pachendrium: Extirpated Ursavar Mal 9 697

Bottman presents the history of a cise in Agh pancre (se cyst was successfull personel from oma 27 years of age.

The typical case is that of an adult he has use traced a solent blow on the typic part of the shot men cannag signs of shock. After a mile pend of time globular and floritusing twose becomes protent in the epicastrome. These separated from the error one of a prayor during the olderest of the state of the shock of the shock of the state of the shock of the shock of a first the time of the shock of the shock of strates that the rrow in a behalf the stooch

In many cases there is hastery of less of requirements and surfaces carollader, cobes, that strength of dependent and naturates, and constitutes it addition there may be polymering photomat, or the presence of fat and undigested mostle fibre in the tool. In some cases the turner may desupport of dimensish in sates all their grow as turn. As a risk fibre in the constraint of the contract affect the angestion of both. The tool is the constraint of the dispensal register. The use of the cryptomag seeds in the dispensal rate by the en all the dispensal register.

The skell method of treatment is extupation. When the seems impossible manusplatation (the sexing of the cest all to the skin and drampt of the outertal may be treet. E. C. Rosensers, V.D.

Lemburd, P., and Duboucher H. Incystel Hamatemata of the Spiece (Les Mautemes entrth de la colo. Let May a resolt

the de la tate! I de lur a ru ant I the spiren, non pursuite erits outsining blood ma he observed sometimes with a distinct wall and sometimes without The next ar true cysts lack are extremely rare and of obscure nathogeness. The second type appear to be encrated armatemata The majority of the latter are due to transmitted rupture of the spices, but large number are formed by apostaneou hazaorrhage not caused be ex-ternal solence. The uthors report case of that type. The p tent had history of malara and collarged spiren since tal acc , nd the appearance of the cost as preceded by sudden renewal of the malarral infection. At operation an ency sted hasts tom: a found. Macroscopic and microscopic exmust have showed that us contents connected of pure blood in diff feat stages of distategration. On histologic examination it as found that the cost licked cellular lame and as formed of connects tusine bich as apparently the product of mfam

matory reution

I of lowler collected eight; see care at non
paramic justs of the spices, of which fort one
appeared t he of the second type described. The
utilities have therevered severateen there, including

ther own. The patient timost always give a bittory of dronous malaria and only exceptionally mention any other infection. Whatever the origin a sub-consequence of percapsular collection may become enjoyated, rapidly increase, and repture or become infected. The interiors are excited inflammation; it stood may extend and both the cyst. an arrow and other control of the cyst. In the cyst. In the cyst. The

When the spleen is dherent and fixed t the abdominal wall and disphragm by old fibrous ad

herions the difficulties are so great that splenectomy cannot be attempted

In the case reported by the authors bermosts as was obtained by legation of the pedicle. The capsals was then incised the pulp separated by burroung beneath it with the fanger and the whole origin decorticated. There was n harmorrhage Postoperative bleeding was insignificant, tamponade being done only as a precaution.

The authors have been unable to find a y report of previous use of this method of subcapsular or

subserous decortication of the spleen

W A BRENA

SURGERY OF THE EXTREMITICS

Conditions of the bones, joints, muscles, tendons, etc.

Ledderhose, G. The Chronic Diseases of the Jaints Other Than Myoute and Neuropathic Conditions (Dis chroaschen Gelenkerkrankunges mt Ausschinst der in kotschen und neuropathi schen Formen) F pied & Chro Other 9 in

Chrome diseases of the joints are classified according to their chinical symptoms as arthritis deformans, thronic progressive pol arthritis, and chronic ac

ticular rheum taun

One of the chief characteristics of arthritis de formans in its very mendious and alone ourse high Permits functional adjustment such as a not observed in any other similar condition. Arthritisdeformans occurs mor frequently in males than in females and usually develops tan danced ge An important difference between this condition and other chrome joint discuses closel resembling it, each as primary progressive polyarthritis, is the fact that as a rule t ttacks the larger joints, particularly the knee yount. It first causes motor disturbances in the joint, but as in the beginning these are not associated th pun they are often descovered only on physical xamination. Joint crepitation is an early sum. Palmation reveals raciling an pregular surface and, particularl promisence of the edges of the joint all of high become more noticeable th the advance of the dresse In contra t to tuberculosis d chronic progressive polyarthritis the associated muscle atrophy in arthritis deformans is usually not very marked, and bone trophy a either beent entirely ery slight Fraction on the primarily degen crated cartilaginous covering of the joint ends re with in eburnation of the exposed bone and car thigmous and bony proliferations t the cartilage bone borders. In many cases loose bodies are broken

With regard to the chology of the condition Ledderbose tates that if the theory that arthritis deformans in general disease in correct, the experimental injury of animal joints or status disturb

ances within human joints cannot produce this condition

The naslosy between arthrits deformans goal, and your deserte a the flash rurra, and our how-ledge reparding the etsology of chrome infections and my conce diseases of the young make it appear it. Dedderhous as exceedingly probable that appear it. Dedderhous as exceedingly probable that the property of the post of the probability of the post carridage.

In the sd sneed tages of arthrits deformans of the shoulder point the capsule is widered and deatroyed. The long tendon of the external head of the beeps, which runs through the yout, is newbedearly becoming stretched, displaced, or ruptured, charges which find their expression in the spherical form and the slipping downward of the external form and the slipping downward of the external to the slipping of the slipping of the protein of the slipping of the slipping of the beauty in the slipping of the slipping of the baggs in the slipping of the slipping of the baggs in the slipping of the slipping of the baggs in the slipping of the slipping of the baggs in the slipping of the slipping of the baggs in the slipping of the slipping of the baggs in the slipping of the slipping of the baggs in the slipping of the slipping of the baggs in the slipping of the slipping of the baggs in the slipping of the slipping of the baggs in the slipping of the slipping of the baggs in the slipping of the slipping of the slipping of the baggs in the slipping of the sl

The author discusses the effect of the discuss also on other joints and its relation to injuries and inflammation of the palmar fascia (Dupuytren contracture)

On the whole the prognosis is unfavorable Although there may be prolonged quisicence of the discuss and improvement in the symptoms, the contions is progressive and incurable. I the chronic ankylosing disease of the reterial column the shape of the erricher is a decisi sign in the differential diagnosis. In spond-julia deformant the erricher show marked charges, while the lateral principations, which are the chief localization of the ankylosing disease are seldent modered. Ankylosing prooflytus is not curable therefore only symptomatic treatment consequences.

The ther conditions discussed are osteochondrits deformant cure | venults, chronic progressydestructive poly vibrints, chrome articular rheuma tism chroni discusses of the joints occurring in in fancy and chronic discusses of the joints associated with allaptonurus, peorissis, or hemopolitic

VALUE (Z)

and gives good results. I cally about 15 per cess
of persons of middle age. In the latter group, this
method may be tried farit and open operation
performed latter if the results are assurce-stud, but
such procedure is associated in low of several
months of these and abortening of the himb. In
case their treated the leg. as addocted not abort
cert of justic persuited latter the specio operation per
cert of justic persuited latter the specio operation per
another treated by latter than the monthard into
another treated by latter than the person operation and
by liveningly regions as the method of choose and

I the immediate operation as 8 m incoson is under over the great trochaster and trustion is applied 1 the limb by mexims of the II lay table. Abose is the dillied from the law of the troch a ter through the preck and int the head on the meaning one shope per taken by chiral said in the from the outer aspect of the femily presenting the ound a drivern in and chaseled flash. A platter bardings is them pipted with the limb i bluction and left in place for two months. During the third month muss greated prisely mention are mattured all the potent in both. During the former and fifth months better in both. During the former and fifth months the patient is 80 of to all it the and of such and the said of spatial. It is the end of air months. Il support is

removed.
In the case reported excellent an tomical and functional results were obtained with no shorter ing nd practically full motion.

Painter, G. F. Injuries t the Crucial Ligiments and Arabiton of the Tibial Spine Science M of f.J. 9. drawn rbs

DR Triany, M.D.

In the author's opinion risphers of the crucial lignments is not as serious as was fewerity believed as very good (suction may be expected after in juries of this ture of the operative tristinest is associated the very letter task. I the majority of cases the conditions call for transling operations and transference of messles of transplant of fasters like crucial lightment, may be repuired or fasters in the crucial lightment may be repuired or fasters and the crucial lightment than the required control of the control of the crucial fasters and the crucial lightment of the control of the crucial fasters and the crucial fasters and the faster after a filting to be many faster than the crucial faster and the crucial fasters and the crucial fasters and the crucial fasters and the faster and the faster and the crucial fasters and the faster and the fast

Avulmon of the tubul spines should be treated

conserv tively by the application of cast with the leg in xtension.

The comparatively good function which fre-

The comparatively good inaccous which in questly follows rupture of the crucial ligaments is explained by the fact that as rule the contou of the articular surf cas of the fermar and tibes is not changed.

When person sub artherist be in hed for long item with his legs in slight faction or complete streamon the condytes become equated at the this substracted it such catter that his is completely manyingted even before the meritigal has become relief of the conduction of the conduction of the conduction of the conduction can be prevented the prospose as regard function to the knee yout a very feworable.

Meore B. H. Subserragaloid Desocation of the Foot, Sury Grave & Old 9 1, Kerr 122

Subratragalord dedocation of the foot, in which the os calcis and the scripboid are deplaced from the extragalus, is rare injury. Its causes are usually a fall from a bright in which the weight of the body is received on the adducted or abducted foot, or violent blow on either side of the lower part of the leg The dislocation may be is aid, setward, backward, or forward When it is out and the astragalus sinks down as the result of weight busines the foot becomes everted and abducted, and the head of the astragalus becomes prominent on the inner side. When the dislocation is outwent the intercements begannent is ruptured between the estragelus and the os calcus, and the estragelocalcaneal ligament and portion of the detool brantest are toro

The treatment consists in principy reflection when possible the method depending upon the type of the dialocation and bring brised on the principle of reversal of the force—but caused the dialocation for old dislocations in which reduction is repossible astraighlectomy in the method of choice provided in the principle of the principle of the Fig. 6. Multiply UD.

Morfleder A. A Case of Renking Off of the Taber Calestori (Leber erses Fall von Abbrich des Teber extenses). It is the Behande 1922, 2337-646.

The thor reports a cuse of valuous fractions of the 4 benuis of the so calas in which there was delectation in the longitudinal stars. It distortions start that the second of the promisal fragment about on degree and the second of the start by open operation as perforation of the star threatment. It was possible to provinciate the bones by marked plantar factons and it is the period to the start of the start factors. It is periodicine and the investment of the their tendent of the start of the start factors. It is periodicine and the investment of the theoretical to provide the periodicine and the start of th

The ound healed by prinning streeting and the rectigency are aboved good callons made. The after tractioned included sectors and passive motion, both and massage. Function is almost sorrest, but prolonged walking caused great strates and particular could not follow in calling (carpeter) coupleted after for southle Seeth inprins often

produce long contraned disturbance

These fractures may be due to indurent extens (sack as tension of the smoothere of the cell and falling on the foot in the postnon of narriad plassifier for the foot in the postnon of narriad plassifier for the same of the control of the same of the control of the same of the company of the control of the same of the fast (the narriad plassifier of the framework of the fast (the narriad plassifier of Tarts and Heshigang showed it it the postnont of the same of the fast (the narriad plassifier of the fast (the narriad plassifier of the fast (the narriad plassifier of the control of the fast (the narriad plassifier of the narria

calcis due to a force from below rather than to contracture of the Achilles tendom. H. clasma that there is also a longitudinal compression as the tuberouty is released from ligaments under ten

The thor believes that in his own cases direct force was responsible, the foot being wedged and the body sinking to one side so that the fragment was twisted.

The treatment is insually conservative, consisting of the application of a plaster cast with the foot in plants from and the lane bent. The uthor recommend, tenotomy to eliminate the tension of the muckes and to avoid the long continued pointed foot fration otherwise necessary. Zaprza (Z)

BURGERY OF THE BONES, JOINTS, MUSCLES, TENDONS, ETC.

Henderson, M. S. Surgery in Infantile Paralysis Himmetal Med 0 706

there passing briefly over the treatment of inhutile paralysm the cette stage and the period of recovery the author discusses the arrows operatores of value in the stage if rendual paralysm. During the period of recovery there may be deformables due to improper mosele balance after partial paralysm and the deforming ction of gravity which proper spinning would have prevented to

Emphasa is placed on the proper selection of comes for surpry. The case should be studed as a bole, and special attention should be paid to the pair. The pattent or his parents should he consideration of part with a should he expected from a certain operation of '74 cases treated conservatively at the M yo Climo '5 per cent were subjected to surgery.

Mimpulation, tenotomy osteotomy arthrodesatrodon plastro, tenodesa, and astragalectomy extraction plastro, tenodesa, and astragalectomy arconsidered in turn. In the contractures of deltoqui parliyar, and hip or knee fenon and mile deltoqui assars much can be accomplained by mampulation alone eather by the daily polacition of moderate force, the position gained being held by suitables quality, or by forulae correction under assessing plastropy the knee care must be taken a prevent sublanation. Tenotomy is indicated only

her nothing further can be accomplished by mumpilation. In talipes equinovaria, if the tendon of Achilles as cut before manipolation the felicimus action is lost, and it is difficult to correct the arm. I requently section of the plantar fascia is sectesary.

Outcolony is next considered. In cases of deformed feet after manapolation and tenotomy osteolong through the t mai boses is often necessity. In the necessity of the control of the next properties of the leg below the next properties of the leg below the next properties of t

ened there is often a knock-knee and an everted foot, the latter due to the rotated tibus. An oste-

otony through the lower end of the femur and anther through the upper third of the this, and posmbly the fibels, may be necessary to correct the two deformaties. Correcting the line of weight-bearing restores function in a surprising meaner for weak muscles are placed by the correction in a more favorable position for work. It is well known that a limb without paralysis turs very easily when the

weight-bearing hine is faulty Arthrodeus should be used to increase function and give stability to the lower extrem ty and to increase function in the pper extremity. Arthrodesis in the lower extremity should be used only when the extremity below the joint t be fixed is capable of being made to bear weight or in other words, when the fixed joint can be used to advantage. Some persons may prefer to use a brace rather than to have a stiff knee. Astrasalectomy is usually preferable to arthrodesis in the ankle joint. As all lateral mobility occurs below the astragalus, astragalocalcaneal arthrodeses is sometimes of value in stabilizing the foot Astragaloscaphoid arthrodesis may be used t overcome a tendency t everage in the f repart of the foot Arthrodesis as of value in the aboulder sount only when the scapular muscles re intact even when the elbow cannot be voluntarily moved. for when the arm is raised from the side, gravity will bring the hand to the head. If the hand is paralyzed, arthrodesia is co tra-indicated elbow may be ankylosed in the position of election, but the patients get along so well as they are that they do not often choose arthrodens

Better results than heretofore are now being obtamed in tendo plaints because of better selection. I the cases and better understanding of the limits tons of operations on the tendons. In the foot of a patient with paralyzed ubusis a ticus and strong remonella, one of the perconcels may be transferred to the ubusis antices. If the perconal group is paralyzed and the thoist antices is strong, the tibidis anticus may be transferred to the cubous perconals to the tendon of choulder function of the perconals to the tendon of choulder function and transfer of the retense longua halfaces to the front part of the foot for toe drop have been disappointing in the utbod experience. Faultre as certain if weak movies in transferred to replace certain if weak movies in transferred to replace

trong one Transfer of the bureps femores occasionally the simultanians to the patellar when the quadraceps extension is paralyzed to very attactiony as it gives stability to the know even though the patient is not ble to extend the knee fully Opportunity for tendon transference in the upper tremity in rice, at least in infantile paralysis.

By tenodens t is possible t prevent foot-drop by fixing the distill parts of the paraly sed extensors of the toes and the thinks anticus into the thins. It is possible also to prevent calcaneal deformity by implanting the tendon of Archites int the this. The use of tenodens has been disappointing in the

author's experience because the tendons have so often shoped at the new Insertion to the bone

Astragalectomy with posterior displacement of the foot is indicated chiefly in calcaptoralgus, but may be treal t ad antige in full feet. The most inportant points of the operation are backward dispixement of the foot and the municipance of t leas with sheht equipus

Reld M R. The Use of Large Reservin Grafts I the Healing of Chronic Ostromyrility, Ball John II ph Harp 9 Retter 185

The treatment of chronic osteom chila is based snon the obliteration of the bone carrier Reid latroduces a new method the use of so-culled plach

Crafts The technique is a follows The bone ca ty is treated with Dakin a solution until it becomes kned ath clean, firm grand too Without the use of this or some other antisentic solution, the granulation turne will become ordenatous forming an unbesithy base for the growth of the grafts. Two boom after the last amention with the Dakin solution, large, thick peach graits cm is diameter are placed closely together upon the surface of the cavity. The grifted outed is then exposed to the all from six to right hours Thu period of drying serves to fix the grafts family tut the gra ulation terme. The grafts re then covered and held in place with a storie layer of grute firmly fixed t the skin

Dunng the next to days saline compresses re applied Dakin's solution is then used instead of the and solution for fin days, being probed by Layeng net compresses directly against the ound every bours during the d y and every four hours at about At the end of this time the band is dressed

with protective rubbet or old back The graits grow quickly and cover the granulation uh epithehum la from ten d s to t frague If the grand tions become high, Dukin week solution is re-prised for soe or t day t da) to reduce

The technique described is of after expectally for the closure of large bone on sties which are deficialt to obliterate by other methods. The enabelial covering formed by peach grafts is thicker and more durable than that formed by Thiereck stafts and therefore all better libstand the action of the mobilere present la deep cavities

S C WOLDENSTED M D

Canapbell, W.O. Arthropla ty of the Elbow Ass terst 4 s Swz e Cases for ellow arthroplesty must be chosen

Judicionsty The following pathologic conditions mentioned by the athor decrease the chances of success or contra ladicate surpical interference () tuber culous, (s) ostests with much shortening of the extremity (3) extensive scars backing the sam to the bone, (4) extreme nuncular trophy with reorganization of bone structure as when, after a long

three the medulls of the humans and ohe be come continuous and (c) old eterrated home er tending a considerable distance on each a le of the

Two conditions alone furtily related to fractions with ankyloris following transmitten, as !

ankylogis following infection There are five methods of arthropiaty ver

1 Wide exclusion of the articular perfects. Cambr an trestable foint results

1 The interposition of polarization furtil fire between the remodeled articular surfaces. The method has been about loans.

3 The interposition of spiral membranes. The drusts antare of this procedure is salection (more)

by foreign body frintation. 4 Free looks late translatables Mechanical reconstruction of the surfaces of

the form and the interposition of various no-STEDCHL

The athor makes 6-1 3 in melaka on the proterior spect of the arm and foreign, but external to the millime beginning about the mill's w the beneron and extending about to a la below the elbow joint. Ship, superiodal fastis, and deep from are moved and emurated. In the summer the appropriate of the Incens is exposed. This stractive is dissected from about downs and, making a bac tourne tracked to the olecranon below. The lack son is continued through the muscular there of the increased the percentrum over the lover half and the persosteum then stripped from the lower end of the superme. Some timese calling, ad loss bony particles are responsed

About 35 m is reasoned from the lower end of the humerus, and the cut end is remodeled into surface convex (men before back and) thempt w mide to reproduce the normal an news of the bone. About 14 in is cut from the tip of the electrons process

The bone is removed until healthy spongy book is ex

nosed The radio alast joint is not disturbed, but the surface of the radial board most be on the same in el as the coroneal proces. The personners ad tricipa double fits but a marcie are desected rate stitched to the enterior capsule and serves to separat the raw hony surfaces When the radahumeral joint is normal and there is bour anky loss between the alms and humerus, the radiohemeral fount is not destroyed, a bean authrophisty being done between the humerus and als When is such cases it is temposable to obtain posterior fire w sufficient sure, the more around toneron from the traceps as placed between the rariacus. The cape of the joint is stitched to the posterior expect of the

in one case tall femon and extension has been accured the no motion is the radio plant joint

The efter treatment is important, and there med be co-operation between the surgeon and physics therapeutist. Active motion is sessatual.

form Minorate, M.D.

Roberts, P. W. A New Approach t the Semilunar Cartileges. J. Am. M. Ass. 19. 2, box. 606

The new approach described by the author eliminates strain on the wound when the knee joint is fixed and obviates suturing of the synovial membrane

A blunt V-shaped incision is made one arm of which begins about 34 in about the upper border of the tibul condy to and follows down the border of the patellar brament for distance of 15 in The knife is then carried transversely outward a short distance and then upward milde the lateral heament t the level of the opposite arm. This incresion is made through all tistues overlying the tibis including the persosteum. With a personteal elevator the flap is separated and retracted upward until the coronary ligament is exposed. The coronary ligament is increed transversely at its attachment to the tilus. On further retractio the meniscus is exposed and may be dissected out with narrow-bladed laife. The percenteum and overlying tusines are then replaced and sutured in position with inter reperd chromic gut sutures not including the synovial membrane The skin is closed with alk. The firm suturng of the periosteum prevents strain on the have wound even when the knee is fiered at oo degrees Fa. (MORREY MD

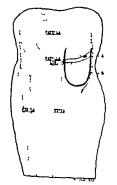


Fig. Live of incision for excision of internal versal air cartilers. I, internal semilanar cartilage. B kne of inthem. (Autoria)



Fig. Flap retracted upward, showing exposure of memacos on its under surface. A internal sensitionar eartifage B, medial condyle of femur. (Roberts)

Mondor H Wounds of the knee (Les plues da genon) Press mil Par 9 2, xx 96

Mondor cures the treatment of nounds of the knee during the World War. Arthrotomy for drain age was th method in general use in the beginning but was abandoned because of its disastrous results if the treatment then adopted the yout was opened side cleaned of all debris closed by primary sature, and treated by circu mobilisation.

In the war of 5-70 the immediate instituting of the wounds in the French army under a policy of surgical battention was between a side per continuous while in the Germa army in which immediate resection was done t was 50 per cent. In a series of 500 cases treated by arthoromy for drainage during the World War there were fifty to death insteam secondary resections, and forty-one substitution amountains in addition to numerous in athoric was the state of the foundation of the f

Holiete The Gritel" Amputation in Insurance
Medicine (Der "Griti" in der Verschetungsmedin) freit f orthop Unfoll-Chir 91 zz.

Langer considers the results of the Gritti techniques unfa orable from the standpoint of industrial

Distriction by sourcey Journal of the Assertes Medical Assertation.

medicise In his t ath fi cases of accident injuries full weight bearing capacity w present in only eight no weight t Il could be borne on the stump in thirteen and only partial eight beining was possible in four. The patella was in proper position in t. ent; cases, and dend-seed, ith out improvement of the eight bearing capacity ha abortening of the thigh amounting to 4 or com and strophy of the musculature up to a mine from elecumierene of s em at the mid lie wer other seconds. The permanent compensation of aged 60 per cent For patient ere fall ble to

carn their living, seventeen, ere portnih fremur feated, nel fire were smalle to work Is so per cent of the cases a high amputation of the let would he been sufficient Very aften defenter a emericaced 1th the artificial leg. The Continuent is not larged by mandacturers of applyances because it regules special construction of the

weight bearing surface On the brus of his t catron a come the author comes to the conclusion that the Gelits appreciation has no mailed it attent over les amputation of the thich Section (II)

SURGERY OF THE SEINAL COLUMN AND CORD

Schede F Practure of the Presentatival Abscess (the Paulitius des praevettebrales Abscesses) Mucaches and Il kande g 2, lu 770

It must be rumed that the out less in some dylith it caused less by collapse of the critical th a to the trems of the present bral become If the presentelinal locus is to be constituted from the rest the urgeon in I deterrises I depth in order that he may know how down to users the secule St ub's procedure described in detail in th article makes I possible to determine the depth of the above by the aid of the \(\cap \) y

l'u i be successfully executed cal il the button the of the absent he not reported too lar If hen the pus ha once made it was down and the preventebral aboves does not fill again and only t walk remain vaulie in the rocatgrangerary Hence, buncture is les suitable for absceres of the handar stress than for those of the dorest spine

nce the latter small, berres later The a thor warms agrant the use of Calot solu tion after processes of spondylitic abserts On acrount of the rapid diffusion of the creosote ether contained in the solution one of his patients suffered an immediat slight shock tile coughing and the expectoration of sputum tasting strongly of creosor

The effect of the rebel of the pressure on the medalla is usually noted ery soon after the pane

Punctur of prevertebral abscess is to be looked strong at a self and on effects, method much to be preferred t costotrasts ersectomy since talmost entirely excludes the possibility of secondary to THE EARS (I) feetons

Even and Minte Carried Ribs (Leter Halamon) Deutsche med if he he a zhun 915

A opens, to years old complymed of prits is the rucht arm but occasionally particular, i cold neather became more waters and rade and and the occuput These stacks re baracterized he in a wary pule thecoloration of the right fragers of blank discoloration of the tip of the right oder farri

(areful examination reveiled distract identities of the subcl visa artery in the supractavacular four. and rated reduction and a thrill under the agree reported fager. When the artery was displaced hard resultance as noted. The last pulse was cak and the radi I police breat. The rocatorsegram revealed the presence of a con wal rib report for aroun the first thoracter rib. The roment delured

serencel treatment for two months

it operation the mbch us after was experby a Aocher include. Since the time of the first examin tion it had become thromboard. The riwas retposed first in the direction of the estebra and then in the direction of the chest in a case to I injure the bracked pleases the transcere ten follower. arter) or the acapular artery. The resulting look w the does of the plears we concred by totalest tissue over t. A complete cure hid not been obartery showed pulsation

There other cases of cervical rib are reported to lanel. The literature on the subject is reviewed and reference is in side t. Sitrovier overation in h begun tithe pe of the neck

Corpolar T II Traumatic Spands Stin. Proc. Ers S. Med Load . s. sst. Sort Orthop

The uthor reports fourteen cases of transmite condition or fractor dislocation of the spine In there cases the correct cricken ere in shed to at the dorsal entebra, and at five the healer ertebrae I one case th cattre loss of scotton to the peck and marked sating of the sreades of the foreatm and shoulder partial reduction of the delocated crieben taster ameribes as follo ed sected d vs bater by loss of power as the other no The complication as transcot howe et and the

national lims tely made complete recovery that of a nomes whose Another case reported right me became pushed and week following dislocation of the fifth cervical ertebr by Opensk w made an incress over the median line of the seck and used the t lamm together. Power to the right rm steadily returned. Removal of the a re feet four months a followed by re

arreste of the chiness

Openshaw states that in fracture dislocation of the dorsal and lumber spose the most important sign is hypersesthesia of the intercostal nerves, the so-called "girdle pam, or pain along the course of the humber or sciatic nerves. This ugn is of value because it indicates which of the intercostal perves corresponds to the sate of the fracture dislocation. A stereoscopic examination is lso of great aid in the

dugnosh The X-ray will show () antenor and lateral compression of the body of the vertebre () wedge formation of the vertebra, (3) obliquity of the sur faces, (4) irregularity of adjacent surfaces of tw ertebrae, (3) gapang of the anterior part of the intervertebral spaces, (6) lipping of the anterior edges of the upper and lower surfaces, (7) central shooption of the vertebral bodies, (8) separation of the ribs due to kyphosis, (o) angular curvature () ankylosis and synostosis, (r) lateral deviation and (1) rupture of the suprespenatous and inter spenous braments

For cases of traumatic spondylitis in the cervical repon the author recommends manupulation to force the vertebox int place the temporary application of leather or felt collar or plaster of Paris, and wiring of the lamine, the wire being left in

Cases m luch the dorsal vertebrae are affected should be treated by recumbency if the condition is scrious, by the application of leather cornet with arm supports, and by wiring if the kyphone tends to IDCTCLIC

When the lumbar region is the acte of the lesson Openshaw polices a leather corset and laces the spenous processes together with silver wire

Suppuration is rare traless there is an open suppurating wound elsewhere. The pain decreases quickly in seventy and extent after the some is mamobilized. The cure is alow requiring eighteen t thirty months

The article is illustrated a th seven roentgeno **ETAINS** S C ROLING, MDD.

Schreder G E Rhizomelic Spondylosis Spon dylrtm Deformana (Spondylose rhisomélique apon dylrtm deformana) Ugerk f Larger 9 bxxmn, 95

I eighteen of twenty-five a topines in very young persons exostoses suggestive of arthritis deformans were found although there had been no nervous s) mptoms during life

One of the two cases reported, that of man 4 years old, the thor designates as case of hizomehe spondyloses with typical complete ankyloses of the spinal column, kyphones of the cervical and upper thoracic spane obliteration of the lumbar curvature, and slight muscular atrophy. The \ ray revealed narrowing of the intervertebral discs and femon of the bother of the ertebre. The not

orthy features in the history ere goourness and syphilis Otherwise the course of the dheane as the musil one, beganning the pain in the spinial column and coding with rapidity. The thor leaves open the question of the etiology but is inclined toward the are that the gonorrhoral infection may her, been an exciting factor

The second case, that of a 35 year old man, the autho designates as a case of arthritis deformans This began with pain in the ertebral column and the extremittee and ended with rigidity of the spans) column in a markedly stooping position and muscular atrophy The A ray showed excrescences around the vertebral bodies which finally spread from one vertebra to another in the form of bonv bridges. The author believes the diagnosis should be based on the \-ray findings Serrey (Z)

Cofield R. B. Bony Bridging in Tuberculous of 01 brux, 101 the Spine J Am V A

The presence in the spine of hypertrophic changes amounted with bony bridging and ankylous of the verteben has been regarded ance the advent of roentgenology as evidence of the strictly non tuber culous nature of the disease. This theory the author believes is incorrect. Since it is kno in that mixed infections due to external drainage of cold abacesses often give rise to bridging he regards it as not improbable that such bindging may result also from secondary infection of the tuberculous process carried by the blood tream from some septic focus

in the body The localization of the chronic low grade infection in the superficial portio of the vertebra in juxtaposition t the extengenetic perioateum may be responsible for the laying down of bone, th same process in the center of the certebra having no such action. The regional location if the vertebra m the spinal column is also factor since as a rule the spurs are found in the himber region where the reaction t the strain of weight bearing is greatest Although usually tuberculous does t produce bone, the reaction to any injection varies with the atuation of the process, and the somal articulations are more and to react t infection by ankylous than any ther coints in the body DR Tracos MD

Kielnberg 8 The Operative Treatment of Scolloust. Arch Surg 9 2, 632

A complete cure of structural scolors cannot be obtained by any known method. Treatment is directed toward reducing the cury ture, improving the appearance of the back and maintaining th improvement.

Both Hibbs and Forbes advocate a fusion operation to obtain osseous union of the posterior arches of from eight to t elve ertebræ

Τħ thor employs the Hibbs fusion operation and a graft of beef bone

Before the operation the patient is placed o convex frame, the highest point of which is under the middorsal region. Traction is applied to the head by means of Sayre halter and to the trunk by pelvic belt ith cights suspended from cords over pulley at the foot of the bed. Weight is not applied until the position is no longer riksome. It is then applied gradually. The head weight aries from a to o the and the privic weights are a little heavier If there is much anteroposterior or lateral deformity

a Ballian frame i used and forward or lateral traction is policy. Traction is continuous exemt t med times, during the both and during in eager The rationt is ready for operation when the many man degree of correction is obtained. A great r destre of improvement is obtained in four to eleht weeks by this method than can be obtained in more than at months by means of corrective plaster of

The preparation for the operation is important A beel bone grult cut to the shape and suc desired is boded for several boars placed to a closed con tainer ith either and just before the operation boiled again for half an hou. Transi me nicks are then cut in it to f or vascularization. Three days before the operation traction and massage are dis-continued, the back is thoroughly acrubbed, and a sterde dresung is applied. On the second day the same procedure is repeated. On the morning of the third day the back is parated with one half treneth tincture of loding and another atenie dressage is applied. If the operation is to be performed in the mormus the jodine n poled the mint before

The author's operation combines the technique of Hibbs and Albre Most of the ertebre of a simple carrie and all the creebre of the dorsal segment of

a compound curve are included In making the ski norson the knif is curred through to the muscles. The arches of muscles and personteum are laid have the purson real elevator lat erally to the tips of the trainverse processes and the founts of the articular processes are scanfied or destroyed Chara of bone are removed from the lamine and placed across the interfaminar spaces. The six sout processes re-split and turned down so that the tip of the process above fits mt the space t the base of the spanous process below. The spanous processes of the two vertebres t the upper limit of the curve and of to below the lower limit are split. A graft long mough t co er the ertebne operated on about 6 mm wide, somewh t less than 6 mm is thickness, and this curr corresponding to the somel curve is laid in the ound spon the laming and transverse processes on the conca side of the curs and sta ends re embedded bet een the apht averagents of the transmicros processed. The person trum and muscles are sexed with interrepted kangaroo satures, and the subcuttorous trume and slim with extent. A warm sterile flunnel ricket is applied over the sternle dressman

SURGERY OF THE NERVOLS SYSTEM

Landsonsk O. Technique of Nerve Surura (Zor Fachank der Nervernaht) Erntraft / Che 18x 155

Following extraon of the neurons, the t tumps, through which silk threads have been drawn. re introduced to a cell artery and brought as close together as possible by dra ing on the threads Before the threeds are cut and tiedraun the ends

In a week or ten days, when the petient has re covered from the amoretiste effects of the souther b is replaced on the frame, traction is applied, and markers and exercise of the limbs are been. At the end of eight weeks he is usually able to stand up 4 ell fittene platter factor in these were be several months

The entire course of treatment requires from an to nine months

The promedi to results obtained by the arthur have been satisfactory but the time which his elapsed is not rulkened to arrant concludes as to the end results. tion Africana & D

Hackenbroch M. The Countries, Pathology and Treatment of Spin. Bilds Occaria sad in Sequelar (For Kametsk, Pathology and Theoret der Spins bibls a culta und three Feigrentschie) Marriches med II harrie 1923 int. 19

The case reported was that of a curl to years sell he had had an increasure deformity of both fort such her third year and nocturnal enginess since extrol infance Lyamination revealed takens cares with hyperextension of the toes of both feet. On pour derent fleren duringt speater resultance was left. The skin of the feet as had and cold At the level of the last lumber criebra was a swelling ? CH long and 4 cm sile which raised the skin about

con This tumor as cluster and the skin over a as morable. The rocate moram should a cleft m the arches of the third, fourth and aith himbor and the first second, and third sucral estebric

At operation curved incision as made with its hase down and The timor appeared t count of normal muscle tasses embedded in the lastis. When the vertebral canal as opened the dura sa form adherent t the porterior aspect of the critical arches by firm fibrous brads, some of luch were om thick. The bands ere separated and emoral Careful acpuration of the musicle mass from the echstratum reversed sort of minore process of both side bich as attached in the crater by firm and apparently bony theme forming the sale atrat m of the muscle mess. I ollowing resection of this formation. Income about the size of charry as focall adherent is the dura and vertebre

One hour aft the operation the feet ere and nd their color as normal. The operation cure A month later the deformety of the esurem sho Bruthy (20)

the feet as corrected surescally

of the artery are fastened to the serves on both

takes by fine sell sectures. The period are journed through an opening in the middle of the artery If the space between the code of the nerve a so

great that despate trefching, the ends cannot be joined the artery is left unopened or the opening # statched th catgot and the skin orad closed After excessful tretching by changing the passive of the joint the artery is again exposed and opened and the nerve sutured S becquently the artery is Thomas (7.) removed.

Bruening, F. and Stabl, O t. The Physiological Effect of Exterpation of the Parl Arternal Sym pathetic Nerva Plexus Perl Arterial Sympa thectomy (Ueber die physiologische Wirkung der Enstroption des perrutersellen sympatiuschen Ner vanschechtes perarterselle Sympathektosnie) Klis Hollesche 192 L, 40

E en in a perl'arterul sympathectomy performed according to the Lersche method at is seen on separating the adventitia that the caliber of the desected portion of the vessel gradually diminishes contraction lasts up to six bours in the exposed area and occasionally inhibits the peripheral pulse. Ulti mately the tension which prevailed previous to the operation is exceeded. Evadently there is first an protation of the akin and then a hypersonia which causes paralysis of th vasoconstrictors. The effect of adrenahn was not considered as the experiments were performed under anesthemn. Hyperamus is regarded as the most important factor in the cure f vasomotor trophic disturbances

TI MERTE ENIVORE (Z)

MISCELLANEOUS

BLOOD

Brown, G. O Blood Destruction During Emerica Blood Changes Occurring in the Course of Single Day of Exercise. J F per M 9 2, xxxv.,

The studies of several in esturators have shown that normally the destruction of enthronytes is accomplished, in part t least, by fragmentation in the blood tream. There is evidence that the breaking up is the result of mechanical wjury

The investigations here reported by Brown were undertaken to determine bether an increased rate of blood destruction can be demonstrated during exercise. Since the subject is so closely linked a th the general question of fluid and cell changes during exercise a number of observations were made in the connection, and t is a th the latter that this riscle is largely concerned

types of blood lume determination have abox themselves to be of practical alice for use on the living animal. The first is the ell-know carbon monoride inhalation method. The second entails the addition of some substance t the blood plasma and the subsequent determination of its degree f dilution. Since the carbon-monoride method cannot be repeated readily a thin single day the dye method as adopted for use in the thor experiments

The experimental animals were dogs. The chief reason for choosing does, part from their general utility was the special inceptibility of their red corporcies to mechanical injury. The snimals were kept in undreadual cages and fed upon mixed diet containing considerable ment. T. prevent changes m the blood olum food was not given upon the day of the experiment until after the last bloodolume determination had been completed. For purposes of exercise treadmills were used The number of males traveled as recorded by bucycle cyclometer tracked t the machine

Previous tuches by other men ha shown that coanderable rehance may be placed on plasma volume agures obtained by the vital red method

The author's findings indicate that the initial concentration of the blood during exercise is not due loss of fluid, mince there is no decrease in the

plasma volum. On the contrary one in estigator reports that there is distinct increase, especially when the everuse is prolonged The calculation of total cell volume was made on

the bass of the percentage volume of cells in the blood of the jugular em, the total plasma olume being known Hamogloban, pagment volume and ed-cell count are also influenced by changes in the ratio of cells and plant. The initial increase in the total cell volume observed in these experiments could not have been due to mere swelling of the cells as the hemoglobin also increased

It is not impossible that changes in the size of the red cells occur during exercise. A general swelling of the cells might readily lead t an increase in the cell volume. However, the close parallelism between the curves for cell olume and prement volume in dicate that the results were not due to this cause for if this were the case there would have been disproportionate changes in the pagment content and cell bulk. The ed counts recorded by the a thor were too few in number to furnish rehable data as to a crage cell size and the literature on changes in cell size during exercise is extremely meagre

Price Jones, working with dried blood smears, concl ded that the cells become larger. The auther findings tend to confirm this view as the decrease in the cell olume during prolonged exercase is not nearly so great as the decrease in the

Pitment volum

Brown tates that after prolonged exercise both t tal cell volume and pagment volume fell well below the maximum noted after ten minutes of exercise Because of the uncertain f ctor of cell distribution t would be unsef to conclude that blood destruction occurs during exercise, on the basis of the data of these experiments alone, although there is no doubt that the findings are in harmony with such a

From his findings the author dra a the following

conclusions

An increase is the percentage of cells and harmoglobes in the blood of the jugular via occurs early in the course of exercise and probably results from redustribution of the red corpuscles, increasing their preportion in the perpheral blood

s As exercise is continued, there is a definite increuse in the plasms volume

3 A consident decrease in the total cell volume and the pigment volume during prolonged exercise suggests blood destruction

Q Growca E Brilley M.D.

BLOOD AND LYMPH VERSELS

Witts, W.C.F. and Elisch, H.E. Traumatic Rupture of the Ferroral Artery with Harma toma. Huscaus M.J. a. xxi, \$

The authors eport case of traumate rupture of the framoul array in a boy 170 cm of age due to a motor-cycle accident. The patient as brought to the hospital in state of shock with firm, non pulsating mass no m in dameter in the left aguinal region between the skin and muscles of the abdonical wall. The log aboved sensory and motor dameters, the first stop was the skin and motor of the skin and the s

space. Morphine was administered and external beat applied. The next day the artiery as ligated. On the tredith day amputation of the leg was done because of the development of day appretes of the foot with a definite his of demarcation below the knee.

Operation is contra indicated it above unless it is necessary it save lif or the conduction whereomy rapidly some lin the treatment of short the psychiatric lessest must not be forgatten. Heat is essential. The feet should be ranged to prevent cerebal anear, and if the blood pressure falls below 96, sakes or glacess solution should be given inverseconly or importaneously. Transfrance of hosein conduction of the conduction

Cornioley Surgery of the Arteries Transplantation of Arteries by the Nagootta Method (La cloruppa arterials toutaine de greffu artinistapar la méthode de Nagootta) Scheme Eusdreies I III 023. Erra 24

Was surgery made hith progress in the surgery of the artiers as highton of the main artients (husseral and femoral) lends to gangrae m. apprecial of the cases, the continuity of the viscular lumen must be maintained as much as possible in corporaments in which cell items much as possible in the method of Carrel in meterrapid under this title health of Carrel in meterrapid under the theory of the method of Carrel in meter and the method of the met

SURGICAL DIAGROSIS, PATHOLOGY

Chiari, O. M. Extirpation of the Adrenia a Epilepsy (Zer Frage der Nebensteinsonspilon

be Epsepse) Desirts Zhele f Coe syciens, and The won Haborer and the Schrauden choice here abandoned this operation. Following technicals

difficult extrapation of the advant gland dure is, you Haberer in the case of an epiteptic to your all subphrenic abscess and empyasis developed. Duing the stormy cornalescence the epiteptic situals became keen frequent, but later responsed again

in their original severity Ramonic (2)

Kreiner, H. Singuires (Laber des Sagake)

Ergins d Clor Orling a 27 35

Historigh is due to a cloude space of the displaces resulting from stimulation of the respiratory coder. It may be caused () through the central serves system () themically through the blood strata, and (j) reflexly through stimulation of seasory fixes of the phrenic and symmetric newsress.

The uther discusses singulars as symptom of discuss, citing few illustrative cases from the hierarce

The arrows types of angultus sociade the icial singuistics, the unskateral closus space of the dephragm, and the postoperative singuists appearing particularly after operations on the stosaich sed

the treatment indicated when other remedies had in phrenicotomy or blocking of the phrenic nerview

the apertion of no ocum or bressing in a case reported immerce drugs ere lessed of no varl, and were after a unaharter phresent to price and a second of the phrese of the phrese never on the their seds. care as effected through complete paralyzes of the dashware, the patient their completined only of slight dyspons in the dozent nontrion.

ROENTGENOLOGY AND RADIUM THERAPY

Dunns, W. The Scientific Base of Bort Wave length Thompy Am J. Revigend 1923, re. 26

Recent dwances in roostern therapy have an phasared the importance of employing vary postering practition, and of accurately seasons of the dosage. The presency object of rorustrant therefore the transmitted of the contract of the contrac

Three factors determines the fraction of the radation reaching the skin which penetrates to the turner below is () the inverse square is () the absorption fractiation by the tissues, and (3) the

effect of secondary radiation

The first factor is a question of solid geometry, only I in imparished does not depend upon the Lind of reetigen ray used. The other is factors differ in magnitude for of inferent Linds of mention rays In general, taxons absorb less radiation if the way length is short than if it is one. Secondary radiation the depends upon the we length if the wait length in about, Lurger amount of secondary radiation, the secondary radiation is a secondary radiation of the secondary radiation. The secondary radiation is the secondary radiation of the secondary radiation radiation of the secondary radiation radiat

short a length

The practical solution if measuring roentgen ray

wa lengths, the determination of just what we heights receipen tobe produces when operated at certain oldage, the effect of interposing absorbing materials or falters in the path of the rays, the warms ton depending upon the mode fenerating the tube the differences produced by using the with anodes of autom artisla, are problems with which the

thor has concerned himself f umber of years.

Much of the research work long these lines is

described briefly

Suce many factors celer into the production of the beam of roentger anys, the roentgenologist should use some method of measuring the radiation in estimating the dosage material of treating to meas mements of oling current, filtration, and focal datance. The most of an insurance chamber for this datance. The most of an insurance chamber for this datance are described in the state of the carbot state of the state of the carbot state of the carbot that chamber statisticatory for author of the trade of the carbot state of the carbot state of the trade of the carbot state of the carbot state of the method of the carbot state of the carbot state of the method of the carbot state of the carbot state of the carbot state of the method of the carbot state of the carbot state of the carbot state of the method of the carbot state of the carbot state of the carbot state of the method of the carbot state o

counte than those employed in the determination of the biological effects produced by the rays Because it the increase in the country of estimating dosese the montanal and a country of estimating

douge the roentgenologist now possesses method

of treating certain types of disease that is not celled in precision in any other branch of medicine or surgery Appure Harreno M D

Levin, 1 The Introperitoneal Insertion of Burde Capillary Glass Tobes of Radium Emanation Results in Two Cases of Tumor of the Gastro-Intestinal Tract. J Am H Am 9 kms, 2014

The burying a thin tumors of capillary glass tubes containing radium emanation is compensatively new departure in radium therapy. In the course of hast two and a half years the autho has used this method extens ely in cases of atraperitioned it most of the garten nestation litract, the uterns, and the or area, and in the treatment of retroperitoseal tumors. An exploratory laparotory is performed When it is found that the tumor cannot be competity common of by operation the emanation tabes precipillarly the procedures are then carried out. The laparot only included in studies distributed the procedures are then carried out.

Two cases are reported in detail. One was a case of obstructing tumor in the second portion of the doodenum, and the ther a case of tumor of the trans-ere colon. In both cases the obstruction was removed in large part and the patient condition.

markedly improved

The method a still too new t warrant conclusions at its final results is cancer but its flicency is evidenced by the results obtained in the two cases reported in the article and several others which will be reported later. Following its use the patient between the several results of the patient in temperature and no periode illustration or subsequent sloughing of tissues. The insertion of radium manation does not add in the least to the hazard of the operation. The tumor diminishes in size considerably in the course if from six to eight weeks.

ADDRESS HARTE O, M D

GYNECOLOGY

UTERUS

Hebreberg, A. A. Improved Method of Supporting the Bladder and Lagina After V. gland Hyster ectamy for Procedentia. Am J Che & Grace 10 2 h 614

I the operation described the aterna is removed in the simil mapper and the broad ligaments are ligated in section loss t the terms. The uppermost hesture belodes the terme end of the t be and round between

If the tubes and overses re removed, the in fundabulopelyse ligament is dra n over and its moet end meloded in the ligature applied to the

uterine end of the round beament

The upper stumps I the broad beament thus formed as then brought cross the median line of the pel 14 so that the stump of the left ligament may be sutured to the cut edge of the next armal all and the stemp of the right beament sutured to the left uginal all The stemps to not brought int the agents but are inverted into pocket external to the anner end of each lateral all I the varma

The traction made upon the variat I williament be carefully grouped. It is directed by drawing don the beament, determining its length and tengon, and selecting the point t bich it should be patured to the t rital all The suture employed purpostring suture includes with the broad hearment stomp about one fourth of the circumference of the openone of the sennal wall on each sale and superports and contracts the gmal ult The sutures on both ndet are polied before other a tied. While traction is made upon both ends of each acture the againests being drawn into the position they to to occupthe end of the posterior ginal all is sail red t the posterior surface of the interposed beaments After the resection the upper dge of the auterior annal wall is sutured to the autonor surface of the ligaments

tages of crossing the broad againsts The ad and att ching each of them t the again all of the opposite side are that shell is formed for the bladder the opening a the vigina is closed by me ins of oblique traction upon t all, and dilating of the vermal ult and consequent lessening of the rapport of the base of the blackler re prevented E L CORVAIL WD

Cornenders, J. A. St. thesics and Technique in the Transport of Fibrurayorns of the Uterus by Radiotherapy As J Localpead to s, iz, \$

The object of this study is to outline the procedures employed in treating abromyoms of the terms and harmorrhage from other benum causes to present series of statuture groing the effects of

the treatment on the symptoms and leaons, and to discuss I t symptoms which mucht be samped in the methods used. The stude as hard or tocases of kich ros err treated between June, 1914 and luly t tota

Sirres is laid on the propertients of properties prefuringer t the treatment and the record sire tion of crees. Radium is used if the source is ever 38) ears of age and bleeding is the important greetom in the cases of younger women with a des my oma la hick operation is contra indicated, and in the cases of some overn without as one sefeme from uterlos bleeding associated with take culous or other senous disease in back preparer ould not be adverable. Dilutation and curettain followed if percesary by rounteen my treatment are employed in the cases of young women when it desired to cause temporary menopeum or month to lesses the flow. As even moderat, down of raches in the sterus cause aderotic changes predupous to dystocra, roentgen ray are preferable. If the patres m good surmeal risk. I she musder so yours of the if the mere is over 1000 in diameter if the days a doubtful (expectally if or thus tumor asprobable) of there is en tok act of the progration or furficumation in the growth, if there are submotous pedeaculated my occurs, and of the pain or armary symptoms are the important factors, some type of success a car ployed to preference t radiotherapy.

I the treatment of women to yours of the of

older radium is usually used in doses of about 1,200 to 500 mgm hrs but the downer is increased if the bleeding is thought t be due t ukeration or if the tumor mercases the distance from the radium to the ovary A larger douge is need also for young own hen permanent mesopates is desired. The ra dure acts on the endometriess, the oterior areades and the on ry It is therefore distributed in mail utuls in order t minimize the slough in the codoseterum, and is placed well in the fundus to aread the cervite if possible. The Dominict tubes are placed in rubber tubes non third

Supplementary rotation tay treatment at great a large tumor when the believed that permeant menoposes will not result from the intra uterms application of the radium. It is used sho benefit there is recurrence of bleeding, especially if the

recurrence as permetent

A general summary of the off etc of prachatical show that the bleeding cuber crased or became normal in 40 per cent of the cues after one radius application and rocatgen my sense within a mostle alier operation in per cent, whin two meeting 3 per cent and other air months (usually there) in 1 per cent In 14 5 per cent recurrence at cloped buch required supplementary treatment

or stopped apontaneously. In bont 3 per cent (three tasse) her terminent failed. The rentalls were nour or less the same among the different types of ore-except that they were undomnly also in tumors of large size. Dynamenorhors ceased in all cases, showing that the pain depended on renativation On the other hand, pain myanous parts of the body and managonard with mentiration was not satisfacturely relieved no there were unnary symptoms. The effect on the sare of the mass warned greatly.

The immediate effect of the treatment on the putent was slight in the majority of case. The routing may usually caused nauses and slight maissested, which distributes or conting. Following the mira uterna spikeation of radium the symptoms ere the same. The late effects were practically the same as those which occur during the pormal meno.

poss. These effects are ducement a some length. The author attempted to estimate the desarrability of the method by balancing the harm done with the benefits blamed in each case. Such a survey showed that the method was unqualifiedly secretified mo per cont of the cases. In a per cest, more harm than good regalited, and in 6 per cent, errors in judgment or technique qualified the result.

The following conclusions are drawn

Radiotherapy of a myomatous or growly nor nal uterus will stop all hierding not due to utera too, came myoma to ahruk more or less rapidly and arrest dy amenocraceu

Radiotherapy will only partially rehet un nary distress and pain not associated with mensions tion

- 3 As result of the artificial menoprime from rubotherapy, but finalize are the rule and in some cases there as an increased nervous irritability 4 In the majority i prisents nervousness to
- diminated probably because of the improvement in the general condition
- The condition of nomen suffering from nervous disorders may be made—orse
 Changes in secondary sexual characteristics
- and m sexual denies and ential ction are egligible.

 7 Blood pressure studies re unreliable. There seems to be an levation in blood pressure in 6 pe
- cent of the cases treated

 Normal pregnancy is possible after temporary menopamie

 Appara Hasti, M.D.

Beders, M. What is the Best M thod for the Treatment of Uterrae Fibromyonata by Means of the Roentgen Ray ? Am J Reculpsed 9 IX, 797

Thousands of observ tom made in II countries have demonstrated the chancy and harmkensous of nonlight thereby in the treatment of uterine Borney counts. In questions persuanny therefore further demonsion, namely () the country support further demonsion, namely () the country support for the treatment of the nonlight may be and () the treatment of the part method of employ may then

Tech) toentgenotherapy is ontra indicated only bea surpoal intervention is absol tel necessary

The method used depends upon the choice of the portals of entry and the desirability of fiving the treatment in one or several sittings. Theoretically the first point depends upon whether the operator before as the desired effect in obtained by castration ratioschemists, or that direct actor is certification than moments in adultion to the ovaries. The little ser is beld by the majority of French ratiosthers past and by the surface of French ratiosthers past and by the surface that samples being based on the progressing decrease which occurs in the nate of the tumor before the surecurbons sets in Practically, the methods employed by the Germans and the French give the same results because the portals revent tirms as will as the owner.

With regard to the value of the single intenses undiation decoated largely by the Germans, as outpared as the repeated smaller irradiations, the inthor attest that a masser does given it a single season of short duration will grow result more specify but does not take an it commit the variable specify but does not take an it commit the variable specify but does not take an it commit the variable specify but does not take and it committee a result on the form of impatition seckness which increased takes the speciment of the specific production of the speci

the patient for some time

The pring of divided doses, as advocated by the French and by the withor has the great d antage that it does not cause any marked functional trouble and therefore does not oblige the patient to after her mode of irring or giv up her wo k. Its chart wisher consists in the direct action of the nextly result of the control of the next of the control of

POSTE HORE AND TO

Davis, L. Observ terms on Cancer of the Uterus, Rhod Island 16 J = 0 533

Three hundred and forty-right operations for cancer were performed in the Massachments General Hopsit 1 90 pd 43 in 300 Radional supposal removal of deep vested cancer Judio a definit percentage of trul permanent rurns. Recent figures reported before the meet nog of the American Sorqueal Smooth bast Massach for per cent of 6 year certs in breast cancer without glandellar in 1 ment. In cancer of the lip the results are even

Uthough cancer of the term gives dutinct, signs, it is arth-detected early. The Untered Six ten mortality records for 9 a last one detths due to cancer of the formale generation organ. Nursely percent of these were due 1 cancer of the terms As the annual uncrease of the death rat from cancer is bout 2 f per cent, it is probable that tid by 1,000 women due from cancer or the attent every more cancer of the attent every more cancer of the attent every more due.

The precamerous cerv is not easy to describe but there are certain conditions which are generally supposed t predispose to cervical cancer. Among the Intt if the indurated the rations with raion and retropson hick bleed when touched tera ul rare thickamte margio which I de timethy is ted above the surrounding tosue, hard

to the touch unfixed to one I p. ad bleeds end suggests squimous cell e remona. The laverting t pe of adepocarcinom hones r ma hones comb the error with little or no extern I an adout toon Adenocatemoria of the bod of the uterus remains

burnlared for a comments of long time. The results of total hysterectors; are therefore excellent a He se car being obtained in bout 75 per ent of the cases.

braumous cell epith-homs of the err i f more malignant than deposal none and east eacht times a frequent fit we of tomologouses their sa grow g trockou t regard radium ther to better the surgers. The a their does not thur the few II till I see urettage of ca terus tion of the ry follow during d by complet hereterectory the enough of good used sill of the upuni. If By the treatment he bookstaned cure in an net rent of he carees

MD. Pu T

ADDRESAL AND PERI-UTERINE CONDITIONS

Efficiency Provident Oceans () the Unionty Madder Operation Curs (F) makeus m der Unablase eros fact. Opera at Generally Apatalal 101

In the case of a guil sand are hone on dition is diagnored as prosephrous the other found bil teral administration (in the right rate

fling the way of ocange h h the retowner show It he a bullous redema to the truess of the black. The right ureter ould not be found Present on the swelling cancel pamental turbulit of the strike. The thor performed below pan hysterectom. I finish the seriol bents bilomin I bound bet een the right t be and the bladder like nations a terred TOT WHIT (A)

Illret J C., and Maser C. The Rubin Test ne It Theraprutic Application Am J this & Gyme 912, tv 618

Of seventy omen weking treatment for a ribity surty four had to bee program t the period of steribty running from three t t els ; to Oc lu mon of the t bes a found in t cat) eight of the art lour cases of besiet steroity and us t of the six cases of milit est mint best of the seconds owen had had respect treatment for the ordition Some of them had been contited three times, ! had had plastic operations on the cervix and several had been subjected t as abdominal operation apparently for retroversion \one had escaped the

a poyance and expense of frequest office treat ments supplemented for long periods by vaginal douches The revience of occlasion of the table is high

m the somes who h d been subsect I to

test for the relief of the sterility that in those the had not be operated on

It is contucted by some spaceshops that a cent of the cases of primary atends is the female juckt t dilutation and curettere service mented by various non operative measure percentage the authors believ is far too ket 4 5 per cent of the cases of primary similar there is or hesion of the fallopian t bei, condition both percludes the possibility of pregnancy with out recourse to a operation. The treatment of steroirty in the female should never be milertaken without definitely excluding the presence of octla son of the fallogean tubes. The few of air embelors is attituded. In so instance, the there is national

proplets to the condition i ollowing plastic operation on the tuber for the relief of tempts intra tenne pre infation. resent the remets of the treatment and all min a cross the tabes patent

the arguin result is not except to establish and patence

(Accasionally polyp in the hora of the uters my recticate the t bul patram as hall rah and gre ter pressure. Ill secreed in forcing the gui through. In such event a careful exploration of the teruse borns by means of the curett and phoesial

forcers is indicated Ten I cases of property stender one better of scut pube infection. In some mattern sode was of the tobus me. he due to catatribal salvegan The I tt r condition but generally goes assetts nated t resolution is barretinated as it promits t go by hypercens and thickening of the muceon membras untri wil secretion from the mature, cal some destruction of the rain. When it subside the cute ordition m len sufficient in consisted as to in the t ballumen to came occurrent la sach the takes my be opened by gas inflation of the teru bech will deskolge the retters

E L Con ELL MD

Schiller II Does the Orom or Corpus Lutered Control the Ovarise and Uterion Cycle? J)Hat√Gjenc gan 6≴

Overse pd tenne cycles are governed by the over od follacle. The orum is the beginning and the end of I would function it determines in early mbry me hi the formation of the lemale organi and the female sex characteristics and later governs It general and backgroul changes during the person of time of function

The true progra ad deciding in the result of hor mon il action of he corpus luteum

Meastra ton occurs because the overs as not us preso ted

Corpus lateum extract causes by pertrophy and hyperaems of the 1 rus and tubes, but only in the presence of the ovaries. Theoretically its greates therapeutic result should be espected in mesor th gui metrorth gra, and h poplases

I L CONVIL ND

Meigs, J. V. Fibronne and Sercome of the Overy A Report of Two Unusual Overlan Tumors. Besten M. & S. J., p. 2, clvrv. 95

The ovarian tumors reported were removed at the Tire Hospital for Momen in Brookline Mass. The uthor states that so case of either of these types of mixed tumor of the ovary has been reported in the literature. The case histories are given in considerable detail.

The final d grooss in the first case as endome trial polyp troublying endometrium normal t bes multiple lelonyomata of the uterus small fibro mata of the right overy fibrogarcoma f the left

OVER

In the second case the final diagnosis was tro phoed endometrium normal product h drowdpunz bakteril malignant profilary cytateleroms with epithelmin of the serous type bilateral metastatic scenocurcisoma fibroma of the ovar; C. H. D. vis, M.D.

EXTERNAL GENITALIA

Rosenstein The Formation f Vagtina in Congenital Vaginal Valiform tion (Zur Scheiden bibling bei angebornen Vagnahirickt) Vosatack f Gebrith Gustef q 1 m 76

The toprocedures used todo for the formation of gins are the small intestine plantic of Bald in Mori od the rectal plantic of Schubert. The latter is less diagrous than the former.

I farti seven cases operated pon up t the revenut mas be the Schulert technique there were no detthe late in forty one cases in bith the field in-Vort technique is employed there were destribed. The Self-lated for results of the self-lated for technique is substituted to the Bald in Vort technique lating an extraction to the Bald in Vort technique leving an label the Bald in Vort technique requires goal habit the Bald in Vort technique requires.

small intestine
The author reports case he ope ted upon by
the Schubert method. The patient was discharged
the good result tithe end of thirt four d.y.

Monter sure Z

Resenthal The Formation of an Artificial Vagina (I'm Britise zer kw. silohen Schridenli idang Zeural VIII)

ear old gut the complet absence d uterus operated upo according EIR4 the Mori Bald in Huberli method \ loon of enabl testin 5 m length cat out con box the cream and the lost openings or thred tyle I sele instruments then lone The mescat is of the loop but cut off was left into t and mop! ted int the ulthout leasing t point tem his the lower end One and one half cars later the gina as penetrable for tw figure. It and could not be reached CHIMINA ers dight, and there as no inter toes ACLE E. MITTE (7)

Bullock, II A Utero-Veuco-V ginal Fistula Vol J | strates 0 1,700

The case reported was that of a woman 41 years of age who had been marned for fifteen pears and bad had eight children, the youngest of which was a vers old to the time the patient was seen by Bullock. All the births were positioned except the last. The last labor beru insidently with a considerable loss of blood. The patient remembered nothing regarding it carepit that who had been taken in a semi-conscious conditioned of was later in a semi-conscious conditioned of was later it kil that the holls are delivered by forcept. Since was errill for three weeks and onfined it the hospital for three months.

(ter this birth on J I 6 920 she did not prise rune naturally til operat d upon by the thor September 10 On examination the on tern as found t be cut off completely from th vagin.

There was not the mi test passing by high fine prophe could be massed into the uters.

from the gana

Cy toscopic examination revealed reat on the posterior wall of the bladder which obliter ted the right reteral order. It was then decided to explore the abdomen through an incession in the middle line bove the puber. The funding of th

terms was found tilted form and and bound firm it the bladds the hard flammatory mass which invaded the right ande of the broad I gament. This fit fallopsan is be all only were freed from the terms and the left refer as exposed it makes the strength of t

The teres and the upper third of the n were removed that unif am tors me su the broad liquid. The prompt that step I the operation the unitary bladder is necessarily opened. The right unterthinder them present a mentil secure bout 0 mm in depth. The right believe is not considered in the properties of territogethe, with a tight solver in the next bladder. The gian which is deep the properties of the prope

A scond rubber drunage was placed at the point to the blotder in twa sweed up discrett the upper end of the La placed in the again, brought through small opening left in the participant of the bound lightness loss down the participant in the muner in lack the tomach. It is folded Witzel go trootom and brought out through the million most one is below the participant of the million most one is the bloom.

Both drs nage t bes were removed by the third day and the patient as out of bed on the tenty third day feer the operation

1 cysto-copic examination in de August 14 10 1

terested bpo-bysic meanigations along the time of

the scar is the blidder and slight cystim. The increat these screeneed by rubbing the cystoscope along the line of the scar and drawn off late by Burclow are acre for

In prisent today enjoys remeriably good health tad her only iscont entere is slight chronic influemation of the bladder which is gradually improving C. H. D. viz. V. D.

MIXCELLANEOUS

Chate H. C. Levater Hernis (Ptulend il Hernis) i Report of a Case Operated apon by the Ooss blood Rause Ravien of the Tweire Previously Reported Cases Surg G are & Obs 0 ccs

I the author opinion Blide term is afor herma mor appropri to the condition under down own than the term predeath herm. Vost Wuckel suggested the term subpulse herma Puckadal herms are separated from penneal her

se by the trans eres perment muscles

Les for bettue may be content i de sequent These i forms my be unbit sied us (1) direct hertie or those and not it the broad lagarest in the form of the processing of the form of the processing of the form of t

The intern I loundtines of the posterior forms are the broad ligament the rectum of the sacrost actions I general and manginary line bettern two sales of the integrit The automore berton in bondied by the turns and bindier the round ligament, the aging and the tra werne period ligament, the base formed by the logic training species. The base formed by the logic training

of the pel p

If the post nor berns the rs is keep and definited defended and root in the gut and the hidder or the gut, the or in and the tible. The comband type of hereta continue both boxel in hidden his the attempt from themselves to be the defended and only pritted because the hidder hich all constitutions are the contractions of the contraction of the contracti

th pentoceum

The posterior berms pares don rd and for of perforsing must be retrievened Jissas of their the achievertal Jissas of their the achievertal Jissas of their the achievertal Jissas of their the performance of the combard grounds, perforating only the retrievened performance of the performance of the performance of their performance of the service of their passes directly done and it the mag sad poace of early

The external mag is bounded externals by the attending ramm of the between and part of the descending pulse ramms, resulty by the rague, and posternotly by the transverse personal mades. The constructor comes make is informed and the inchocurraneous enternal. This sek trungs of eith is covered only for two bytes of the ficult. Is covered only for two bytes of the fi-

triangular henosent.

The posterior herein is covered by skin, seems
ad personeum, and peacetries the two layers of
the triangul layunest the sichorectal form the
less tor musice and the recovered form The

abtenor hernia penetrates the same structure be the pentoneum only partly forms the six

The cake spot in the pelvie displacages in at the sit of the rectosumond panetion. The long pelvikoop of the rignood isless downward and become part of the content of the hermal set. The lost of the parinal obstruction is the reconserval junction account for the intermittent rectal 5 mg.

Prepaser and partitions are the most expected risological factors. The majority of the lensar training of are first setted during labor or sea star ward. The traums of discust or as instrument of the crystal plan or the condition. Not a supple or field case in the mile has been reported. The youngest pulsion mentioned in the lensaries was

7 cars of age and the oldest 5

I berator [produced3] berain al 214 appears as the posterior part of the labbem mays. The estacl bull of the protreason is corried with seconstralization and the other half with bidegeness. The ordering agest of herma such as impulse recogning and reducibility, in noted. These indeed differential fevrior kerals from ingunal and few oral herm. Baytholiana sheets, rectority, is of

O Mocele re readily differentiated

The I criment consed in high lighton and excessor of the u and closure. The ray I carried posteror betten the may be done her there as tedfast set. In case of anterior better, it is pracedestruction of the less store made and freed recently when are the best form a company of the operation of other layers and if the set are operation of other layers and the set are operations of the ray may be accomplished by transplanting predicted from the freed is to the theory of the ray of the ray of the close the delect they and a predicted from the close the delect they and a predicted from the

I is to plug the subpube trained below.

The author gaves the instruction of use of the control of the control

see of an eas Od one case as cored in Case case, the bears was of the number of type. The case the bears was of the number of type. The case case indicated point of the case of the case

developed unddenly about the fourth me the forespancy and grew wome after the forespa delivery

of a full term, normal child

When seen by the a time the hernia was the first of a fart, and the past there counts prepared to the second of th

The utbor draws the following conclusions. Pudendal herma, although extremely rare,

should be easily recognized

Cases should be divided into anterior posterior or combined types as a basis for operation. Every case should be subjected to operation.

WALTER C BURLET, M D

Mattimieller G A Contribution to the Statistics of Carcinoma of the Gential Organe (Betting our Statistic der Gentialcarcinom) Zische / Gelegith Gyazk 922 Exxxv 06

The author reports on 600 cases treated at the Basia Woman Hospital from 800 to 0.8 In most of the cases the condition occurred during the forty surk to the fifty fifty sears of lif Caramoma of the reginal portion of the cervix, the cervix that the values can the ourse occurred between the forty that, and the ourse occurred between the forty that, and the property of the fifty fifty and fifty fifty internal between the fifty fifty and fifty fifth years, that of the reginal between the fifty and that and the satisfies years, and that of the vall between the sattle fifty and eventually ear.

Cartanoma of the ovary occurs most often in young women The percentage relationship as as follow in the vagina, 8, the vuly 3 the orary and tible, 78 the body of the terms, 5 the cerus, 3.17 and the vaginal ports of the cer

ix, 35.5 The large number of vagual carcinomata as triking, as the primary carcinoma is believed to be ery rare. Also striking was the large umber of cases of carcinoma of the both of the uterus. Almost one third of the carcinomata of the nterus.

ere in the body of the terms

Women who has given burth t children or has bestered several times are more pit to he car chooms of the certain whereas those who have never provide the children are affected more frequently remained to the corpus. Previous granecological contractions of the corpus. Previous granecological contractions of the corpus are the corpus and the care of certain contractions. The instruction of contractions of the uteria is the straining th

An interesting feature as the period of time elapsing between the first sign of the disease and the time medical and as sought. The uthor gives the average as 7 8 months but this figure is

not ery courste as he included also carcinomata of the ovary which cause lite vimptoms. From 1890 to 014, the operability of the carcinomata graduffli mercused from 1914 to 98 (during the World War) t decreased, and from 19 8 to date t has

increased W th regard to the duratio of the disease up to the time of death, calculations could be mad only 35 cases (38 per cent) Many patients, chiefly those seen during rece t years, are still h the 235 omen, 197 were operated on and early eacht ere monerable. In the cases in which opera tion was done, the crage period of life was 19 4 months and the primary mortality 6 per cent I the moperable cases the duration of lif versiged 5 mo the 11 carcinoma of the cervix is considered separately it is evident that of the 147 omen subjected to operation those n whom cervical operation was done lived shorter time than those with carcinoma of the cervix who were not operated on \"\omen operated on but not given radiction treatment leved about thirty-six months, hate those operated on and subsequently given radiation treatment lived only nineteen months Women whose condition was inoperable and who were not given radiatio treatment lived ten months. while those with equally advanced carcinoma who ere irradiated lived fourteen months. With regard to each subject the a thor cites the fatistics of other clinics for comparison. Voy Tarresver (7)

Clark, J. O. and Keens, F. E. The Treatment f. Cancer of the Pelvic Organs with Moderate Irraduation. Am J. Rendgerel. 9, 503

The cases reversed were as follows: cancer: (the necrosis, so, cancer: (the findus, f vs. to choroepsthelioma of the vagina and uterus, four cancer is the cervacia tempo leven recurrent cancer of the vagina fiter hysterectomy twenty two primary cancer: (the agina, twenty im cancer of the urchins, eight and cancer: (it ho idder as: This results were poorest in the cases of cancer of the cervar. With possibly three or four exceptions the cervar is the fixed as red lamperable podged climically but as compared with cases of other than the crisis of the controlled the controlled climically but as compared with cases of other cancer in the fixed of the same afterwards the same of these parts of the uterus.

Of the patients treated over four years ago for moperable carmones of the peline organs 5g are dead, if 15 five (20 per cent) are luring, and aeren have not been traced. Of those treated over five years ago 15 are dead, four cannot be traced, and thirty one (0 per cent) are huring and fee from manifest evidences of the disease. The estimated percentage of patients treated if cancer of the cert was or always beauty or beyond five years after the operation as bettern 6 and 8. Of the 4, patients treated, the yeart majority were in divasced stages of the diseases, quit beyond the possibilities of surposed

metal shields

inter-ention. All me number has had their symptom miligrated or complet by arrested for a time the frightful bemorthages has been arrested for awaratile periods, and frequently entirel stopped for a smaller perentairs prus present it but time of treatment has been relieved. The number of cases both has been runnel, a rectoored on a figure

beils, as larger than expected

On the brist of their tail of these cases the authors is a reached the following conclusion.

Radium in co-main mounts will yield most

grat fring results if properly applied

2 I pursue a set course a thout ariation in the frequency of treatments, regardless of the progress

of the herbing is historical,

J. To titum the best results, the first application
should be made under frome-outle annularia as
the permits a sonce carried reatmentation and the
radium can be brought more advantageously no
centext with the malignant areas by means of ra
dues tudes or alsom needles. G use packing his
executed under sond means and the second of such arrates.

4 The process of cure passes through three stages local destruction, connector times forms

tion, and by also ration.

A by attractions after seccessful irradiation of an otherwise isoperable case is hazardon.

The results of straduction is cancer of the cervit many remove this class of cases from the surpointed.

7 Cases of cancer of the fundar, takes too be advanced, or unless operation is definitely centriindicated, should be subjected to irreference to lowed from fortition to trend, and d. a. later in

bght hradiation of the vaginal forest 8. Irradiation is dingerous misodiately beforest

for an operation, and in Irish operative fields
of Irregions repetitions of irradiation are penably unnecessary and possibly hazardous as the chief blow is struck at the first pipocaton.

t The development of irradulton farthe air be reduced to minimum or almost completely preented by pushing the healthy tissues way from the zone of intensive radi toon by means of dipliced against park. toouw illurros, VD

OBSTETRICS

PREGRANCY AND ITS COMPLICATIONS

Lepayre Pregnancy After Operation for Cancer of the Breast (Cancer du sein opéré et grossesse).

Trout recently reported fifteen cases of preg-nancy following blatton of one breast for center In thirteen, cancer developed in the other breast after from t o t ten vears

The uthor has observed t

cree of prega pey following operations for breast cancer. In both of these cancer developed in the remaining breast The first case was that of a woman sed so years Pregnancy ensued less than t years I ter and the cancer from bich the patient died developed within the following ux months, us in the sixth month of pregnancy

The second case was that of a oman at ears old One and one half years after a thorough ra lical operation the patient becam pregnant ad a thin vix months cancer developed in the remaining breast

and resulted in death These two cases fully hear out the findings of

Troot, the onl difference being in the earlier in cidence of pregnancy and the consequently earlier recurrence of the cancer The author coachides that omen bo ha been

operated upon for cancer of the breast should be sterfined, preferable by radiation of the overies N & Berne

LABOR AND ITS COMPLICATIONS

W tson, B P Further Experience with Pitultary Extract in the Induction of Labor Am J Obst & Gymes 9 15 601

In the 95 cases in which pituitary used to induce labor the result as successful in oo per cent. The maternal mort lity as nil. There were no cases of inceration of the cervex and no greater socidence of pelvic floor lacerations than in ordinary labor. There ere t cases of retained placenta and t cases of rather severe kemorrhage ccompanied by shock following the expulsion of the placents. The latter were cases i primipure over 19 years of ge The umber ad nature f these complications was no greater than like under of deliveries in buch no petuitary tract as used There ere t ely fetal deaths f tal death mt of slightly over 6 per cent. Three of these hildr

ers monsters T died in seer pourcatly from placental infection due to pregnancy toxicima.

Three died of cerebral himoernage and ta felectases thin three day of both In two cases autops) as not permitted. Thing int considers

tion the nature of the cases in which induction was

carried out the result so far the fital death rate is concerned compare fa orably with those obtained

by ther procedures reat deal ha been and and written regarding unfa orable effects on the mother from the adminutration of pituitary extract in the course of labor In practically all such cases, however the drug was incorrectly given. Pituitary extract should be used in the course of Liber for one purpose only the t stumulate uterine contraction when it is markedly

in dequate T in e patustary extract when there is a night a case of delay due to a small pelys. CERLLY OF all ree head malposition of the head or mend pelvic floor 1 court deaster. Runture of the uterus and fetal death are bound to occur if it is used under such cond tions. This is no argument, bowever gainst is use in properly selected cases

When pitintary extract is given t induce labor the tual dove no c cm If there is any school a cra v t the drug on the part of the patient it is reverted it once as in a case cited, in which severe omiting resulted. The diministration can be then stonned. If the first dose causes no ill effects, subsequ at doses. If he equally a Il horne as the drug does not be a unulat effect I the author sperience the task contractions induced his been of a re tonk nature. The first contraction is usually longer the the succeeding ones, but the latt are of the n ture of ordinary labor pains. I most cases they begin to die way in fifteen or twenty min te- nd must be further stimulated by another do-e f pitulary extract. If contractions can be kept up sufficiently long t start dilatation of the cervix and separation of the lower pole of the membranes, the labor will proceed naturally thereafter L T COMMITT M D

Beck, A. C Is I terference Justifiable After Twenty Four Hours f Labor When No Other Indication is Frencht? Am J Obst & Gyner

As the private patients in the group studied ere treated by amber of different men and no defin t plun as followed in the care of the prolonged labors, only the service cases were considered from the standpoint of the end results. In the 1,138 gener I service uses there were seventy nine long labors. All but thirt of these ended in spont acous deh ery lorceps were used in mx cases, either because of marked hange in the I tal heart rat or prolonged second tage I's breech extractions were done for the same reasons, and in five cases of relain, disproportion in which the head failed to engage after thorough test f labor cresarean section as done Three stillburths and the deaths of three infants on the first fourth, and fifth days. respects ely made the infant mortality 7 6 per cent One mother ded on the third day siter a cararen section Add then I proof of the value of conserva that is shown by the end receles in the entire serie Of the 1 rul dein thes which included this group of seventy-nine prolonged Libors, twent -one resolved In stillbarths and fourt en ere followed by the de th of the child lithin the best t cela total miant mortality of thirty-fi (3 per ce 1) Two mothers died, material mortably of one in 160 case

I rom the fact th t in many of these ers of nonlonged | bor the bend us not gared after t enty four or even tharty hours of labor the uthor con chides that manual dilat then or incision of the cers is and forcers deli cry would not h

good end results those obtained

Of the serves of worsen storled 761 hard in the Long Island College Hospital and Out Patient Department. One hundred and fort of labors lasted over twenty-four hours. Of the mun ber 411 per cent termenated in t ents four t thirty bours, and 56 o per cent continued for more than there bours. Of the cen renemary in the hospital series, 105 (o per cent) were in I have more than t enty fou hours. Slightly over one fourth of the 106 dry labors ere prolonged

Larly runture of the membranes arem t be the most common enobered factor. The ract cause responsible for the long labor in the rest of the cases is not known. The study of indi kind cases in dicates that the hief difficulty is I ulty interine

contractions

I the conduct of labor the a thor m es the patient as much rest as possible. Her make ad tem perature and the fetal heart rat re carefully noted completent is given as frequently as the patient can be forced to tak it. I the intervolution en contractions abe us ared to est aid, if possible to sleep. A soon as the membranes rupture if the cervice tail or importfully dilated a sn a belom mil binder is adjusted and the olimitin efforts re-encouraged This routine high is followed in all cases, is excellent in cases of long labor a 1 con serves the prisent strength for the second 4 m. The only sild tion I me ture employed in a pro lement labor is the discontration of liberal down of morphine. Whenever the harveter of the contraction show that the terms is f tigue I sudment partitione is give it stop the liber and allow the ontient t sieco

Nearly all wome he shee relates dispresention ill d liver spontaneously il the re allowed

thorough test of I bor

I arrenty four of the fants in the senes maked 4.000 gas a catty for inductions and h necessary if a large hild had be reg reled indication for such interference

The large number of spontaneous deli era occu mag after test of labor and the low infant and maternal mortality proved that venreas vection I L CORNELL M D as r ly restricted

Holmes, R. B. and Bordick, A. L.: The Yes of Labor I Relation to Conteresa Section Conparative Results Obtained by Electre and necondary Operations Based upon Persons Experience of hinety T Comes 1 J (b) 5 Grant 9 1 1 570

There is community elv bitle di Jeresco in the cal by of operation performed in arhanced blue. before the advent of enhancion over that of even tion performed in the list da sel pregnancy. The differ depends on the management of the care before and during the hours of labor. The belevent of the surgroup, the technique used, and the charac ter of the personnel of the operating room affects the outcome as much as any ad extenses crema stances incalent t the labor. Within certain lasts the duration of I bor is all comparate dy little in portance but agual examinations and attempts at deli en frum below are dansemus, san abontetta-

tin ting until the v tal forces are i the lowest elb Prolonged rapture of the membranes ofto serious mentos t the patient's effore dering the postoperato period. The ocean who has truly electry oper trop all by a more placed and m first h more comfortable convalescence than ground to has been subjected to hours of dates: ing labor. It is essentially true that these gries the test of labor all ha e the same decause at termerature those he has the electors serbed, but in the former the increase all continue longer than in the latter fact indicating lack of rea trace incident t fature. The longer the woman was Libor ith membranes rapt red, the logics the pulse rat and the more projoured the elevation of temperature as compared ith omes not in liber or ith membranes intact F riber it a clearly evident from the study of musety-t o cases that

to so per cent of women operated upon a labor will run more stormy course with somewhat prolonged thermal elev tion -a true though neit apt. course especially if the membranes ha repteral the chancel picture being distractly one than that in cases operated upon electricity

The danger of rupture of the terrae act a sol sight The athors agree with the dicture, once

acts mus. al vs consumas

They have firmly adhered to the principles of the laste section with only moses deviations. There fore unless conditions thetat otherwise they alwa eventrate the uterus through as small an abdomissi

t as possible

The follo sag conclusions are dra The adaption of modern surposi principles has been the most important factor in remains the section t the present summal איל אל כיו עני Dette:

The sc and great factor in lowering the mater nal mortality is abstimence from again examinations

5. Also of great importance at increasing the safety of sections in the routine employment of rectal touch

The possibility of section should be clearly and definitely determined in pregnancy and in every step m the conduct of labor this possibility should be borne in musd

5 An absolute pelvic deformity dema de section before labor begins and at a set hour 6 The soman with relative disproportion should

he given an adequat test of labor unless this is

definitely contra indicated 7 The test should not be so prolonged that t abnormal in cames the fames of exhaustion or

crease in the pube rate or temperat re 8 Prolonged rupture of the membranes has very myanous effect upon woman in 1 bor if labo is and is prologged after the cupture stores con

alescence is probable in per cent f th cases. and fatal outcome in an occasional case If section is performed whose long labor with cal and irregular contractions is not so dangerous

as aborter but violent type of labor I all probability a hard labor liberates protein bother or other by products of forced metabolism which are immedial toom leacence file ingo:

surean section A camerean section performed before labor is most certain to be successful and associated minmal physical distress if performed by skilled hanna

Labor increases the physical dustress and m 3 proparduse the convalencence

3 Abov all things, prolonged labor a th prolonged runture of the membranes, yaginal examina tions, or futile ttempts t deli ery from below is dwastrous

4 Carazrean section is far more dangerous for the oman than spontaneous labor or somewhat difficult operator d from

5 The sum total of discomfort associated with

commercian section is as great as, or greater than, the inconveniences and pain of labor 6 Because of the facts cited and the increased

mortality section should be done only indications LI CORVAIL VID

Direct, J C nd I an Dollen, W. W. Carstream Section Its Indications and Technique Based on 252 Operations J | # 1/ Ass 304

Following a brief umm ry of the industrous for commens section the thors tat that the risks are in threct ratio t four factors () the length of tune the patient has been in labor () the length of trace the membranes hav been ruptured (3) the number and technique of vaginal examinations and (4) previous attempt t operati e agund delivery

The perator must choose to fit the requirements of the particular case no of at least five different techniques () the old classical operation with long abdominal incision and eventration f the nterus bef re it is inclsed () the classical operation with short, high abdominal incisio with emptying sits and then eventration fo of the uterus suturing (1) the extrapentoneal or low cervical cesarean section following the method of Beck (a) th Porro operation a th dropped cervical stump and (5) the Porro operation with marsupulization

259

and drainage of the stump The indications, the advantages, the disad an tages and the technique of each type re discussed After the operation the head of the bed should be mued I in ad daily against douches a th sterde

a ter should be given

The dictum once caracean als 38 a caractean h not true unless the indication is a permanent Rupture occurs in subsequent preg nancies in less than a per cent of the cases. In the series of unselected cases reviewed the mortality was a per cen ROY E CHRUSTIE, M D

PUERPERIUM AND ITS COMPLICATIONS

Williams, P F Postabortal Haenolytic Streptococcerning Am J Olys & Grace o

Four cases of postabortal harmolytic streptococcus bacteremus ending in recovery under the use f polyvalent antistreptococcus serum are recorded Illegal instrumentation t cause bortion is considered the chief etiological factor of such infections. The dangers of non aseptic procedures re evident from the fact that of senes of 100 omen seven ere found to he bor the hemolytic streptococcus in the "errical canal, and eleven others showed con hemolytic types of streptococci prompt diagnosis of such febrile conditions is best made by blood cultures Cervical cultures if they re positive and show the same organism as that recovered from the blood stream are of value in supporting the diagnosis made from the blood findings

Serum should be gron early and in repeated doses, ranging from 50 to 60 cm depending pon the chinical and laboratory findings. Reaction are the rule and ry from mild t severe chills and alin rashes I cases of severe reactions desensation

tion may be necessary

The ction of the harmolytic streptococcus on the currulating blood as not as severe as in ght be supposed. The cases reported showed bittle pelvic disease the most noteworthy findings being slight

pentonits and parametrits LLConnLMD

GENITO URINARY SURGERY

ADRENAL KIDNEY AND DREYER

Hupster G. M., Brown, T. H., and Delcher H. A. Abnormalities of the Lidsey and Ureter A. Case of Double Kidney and Desble Ureter with a Review of the Literature J. Und 9.1, in 160.

In a few cases a ported there were t kidney on the same side and some there was third ectopic kidney. Double kid cys any from the ectopic type t kidney composed of t o p rt separated

by connective there

I no metance ere there t unreters opening from sunce pet in. The pet et are usually placed one about the other ranchy is one found in from of the other. The lever petus is ourself larger than the upper. As a role the portions of the kidney dismated carees the reternal form of the kidney dismated adoptation may not be suspected alone three is defined band explanating the parts of the kidney. I some cases the unreter may reas a durate course and ha e double openings in the bladler or one and ha e double openings in the bladler or one and ha e double openings in the bladler or one may be under the double opening to the state of the country time! I other cases the unreter my come together ad

enter the bindler by a single orifice.

The infurcation of the wreters army be near the kidney but is usually rithin to given of the bladder. When the inverters are closely soon ted, the reter which drains the upper part of the kidney is

posterior but in y pass to an anterior position be

low enters g the bladder

The athors give the types of areteral duplication as follow

Undateral deplication complete depending upon whether the ureter has one or more

openings into the bladder

Hilateral deplication complet of incomplet depending upon the number of ureteral openings. Forty cases of complet bilateral deplication ere collected. There is a case of incomplete bilateral deplication, its cases of complet. Bilateral deplication, and (3) cases of incomplete bilateral deplication, and (3) cases of incomplete inilateral deplication, and (3) cases of incomplete.

The thors summarize the dixt of 3% cases of complet or incomplet where I diplo took in a tables

I the liter to the a thors found reports of the bif reation of a single surfer near ta low extrem there even number of sex in high the super sm mary urefer opened in boomain stratutos the bladder or extrawascally. Most of the reports

ere topsy report I fair number of cases the condition as discovered during operation I only few was the diagnosis made before operation

Improved unalogical methods has made disposed possible in every suspected one. The authors suggest that pyriograms be made in one case he which there is the least suggestion of the condition. A abnormal organ is not suscipling

I path-logic changes than aorial orgin i ory lurge number of double ladopt she dresse I double lithout at the double serion by disconstruction of propositions are serious path of the control of the control of the control of the times are control of the control of the control of pression was done for double ladory has been done of one portion of a double ladory has been does executed by many openion. The wide the control of t

charges normally
One observer found that hen the daphone
reters he neighboring oracies the hadorys so set
show visible attention, hile if one scales open

abnormally the part of the kalacy correspondent to

this order is usually discused.

The engined the anona anomalies is let no nonclear. Note of the explanations advanced to disc seems t account for lift per satisfactions.

The authors conclude their article with the size ment that the point of suportizace for protein methons as that thee anomalies occur with he greater frequency the as greaterly believed with therefore should be home in mind in the dagment of trologoust conditions. General J Tron v M.D.

Crabtree F G. The Nature and Significance of Remai Steels. Surg Greec & Obs. 1911, 227

I a result of his investigations, Croberre on the physiological rather than the physiological rather than the physiological rather than the phthological post of his condition. By this he means extremely of this condition. By this he means extremely hether the kidney is hampered with elimination of union from the pelvis rather this. Sector then

ri dil lation sufficient to terra le dromphiese.

Il belic es it ri serong i rily is the dargoon turby agoon the prelogram to the exchesio did dat obtainable by the explosioner and martini confederate toon it at resert of such exchesione beganing dil lations and timil is disorphisose are alice overchooked it times her remedial accusate of the

he best applied.

Crabtree defines "pol is constent as the amount of urase powers in the petric t the time played cathetier is macried into the petric." Petric capacity.

i indicated by the amount of fluid which can be injected int, the period up it the quantity which causes pain and then withdrawn the mount with drain, not the amount injected represents the carrieds.

capaciti
There are four types of renal stasus between the normal kidney and the large hydronephrosis (1) arm stasus, (3) subarute stasus, (3) intermittent

stam, and (4) relative stam

Activities This condition the author be here is almost entirely an emergency condition, occurring most commonly with store following accidental ligation of the reters, the plugging of the interest by a blood clot during an activities of the plugging of the interest by a blood clot during an

cut ttack of pyelonephrous, and in crees in high the cystoscope was used during acute pyelone phritis. Le inthough the obstruction is complete to not senious in its after-effect—as the kidney generally returns entirely to normal—hea the obstruction is removed.

Subscute risas. By this term U altere referred cases of purial obstruction in back presented over dilution of the ladine; continuing for period of ecia or months. As an example is interessed the back pressure ladiney of pregnancy. He has beened cases in which tassed shoot joo con decreased to 15 cm, as it the termination of period party. Further dilutions may result bowever from the progress of the disease, without the interestinal in laborator pregnancies. Monther type of atheretic obstruction is that due to urecernatone in the contraction of the progress of the disease in the contractions of the progress of the disease in the contraction of the progress of the disease in the contraction of the progress of t

4 Intermittent states The 1s most common causes of this cond ton are recal mobility and supernumerary casels. Renal mobility is probably and supernumerary casels. Renal mobility is probably altomately associated with berrint attents in all cases in which pelvic states results. The great supports of papable kidners are insertioning nor maily in epit of some degree of mobility bott the restest mosteone (1 punephrisms, byforeophrisms, persistent pyditus, and renal point on the right sale accompared with the inside and the femile as compared with the made and in the dutt as compared with the child, point to nignificance in these anatomical distractes. It tuckestes also that renal damage is progressive condition.

A Relative states By this is meant posterior doctronton to the outflow of union. This condition may be present authors a mytoma. The function of the balance are sensible good and there is no thimming of the curter indicating serious back-pressure. The reference from the state of the many serious of four in the blader present and the instance in the latter of the state of the stat

Barney J D The Question of Recurrent Renal Calcult Surg Gyac & Obet 9 xxx 743

The author calls ttention t the pancity of the hierature on recurrent renal culculi. This subject is unpopular because of the long and patient labor back the accumulation of data involves, and be

cause of the deappointing results revealed by the investigation. Blamely believes that in study go these cases it is recessive to examine the patient personally the patient statement by word or letter being insufficient.

The recent unvestigation of cases in the Massach retit General Hospital showed unsufficiency result of General Hospital showed unsufficiency result of the entry cases of nephrotony the results recent per enables the same and the second of the presence of stone on one or both sales. These figures would be greater if all cases had been checked up by the Nay Manay sere unquestionable cases in which stones were left to operation. Of the cases of toole duttied to the hospital statem had been previously oper ted upon for renal calcula, and of this umber it is, 1/5 per cent) had been operation.

upon on both sales

In recent in estigation regarding recurrences
postoperative reentgenograms were made in t enty
case. In me (a; per cent) the films showed a stone
still remaining in the kidney. In the absence of
such postoperative roentgenograms, which clearly
demonstrate the author point that stones are
frequently oversolved during operations, these
stones would have been recorded as recurrences if
found t later d te.

The various causes responsible for failure to remove all of the stoces, and the sid given by the fluoroscope t the time of operation are discussed. The a thor conclusions are as follow.

As there has been little investigation regarding recurrent or overlooked renal calcul, it is descrable that various observes in different clinica undert, ke sech in estigation.

A roentgenographic examination made during or very shortly fire convalencence is essential for the couracy I the results in such study

3 While the few data t hand show that stones are found in the kidney after operation in sur praining umber of cases, it is impossible to state which of these stones for recurrences and which as testing the stones left at operation. Unquestionably recurrence is ery frequent.
4 The complex character of the interpor of the

4 Inc complex character of the interior of the kidney hemorrhage from its mucosa, and the comparative microssibility of this orgin in many cases contribut to the difficulty of removing all stones.

3 Although various procedures may be resorted to for this purpose none is infallible. It would prear that the finometope offers the most promising prospects for success.

6 Pre operator study cannot be too painstaking, nor must the possibility of superimposed shadows of calculi be overlooked.

7 A second operation for the removal of remaining stones is advisable in most cases and abould be done soon after the first operation.
8 Pyelotomy is unquestionably the operation of

choses and is often advantageously combined ith

Пимая L Сигнегова, М D

Holer O Obstruction of the Coramon fills Duct and Anarta Duct bolliary Cyst of the Addrey (Choleschain crist lines and Anare duck bolliar cyst der Mere) Harches and Il hancle 9 like in

Solitary () of the ludger are train. Take yamptom are usuall light but they must cross worst deturbances by resust around the cross worst deturbances by resustance of the secretary of the secre

Oehlecker F Th Partially Transperitoned and Partially Extraperitoneal Operation on the Kidney Extraperitoneal Operation After Binination of the Peritoneal has (the test transpentoneals of the entraperitoneals Neutroperaton ett p. toosale Operation at h Vellenering des Peritones Macho, Phile I we Ch.

Transperitoosal nephrectom less behinds all extending through the piritone. It as it hisks to give ree to incarcaration of the intensite. With the author modification of the operation the spin of the properties of the operation of the should spin of the spin of the

This operation is ecommended especial for cases in high the kidnes is us in brown a position and for obscure cases. It is begun the prairie (2) for starter (2).

F cales, H. D. Supermonerary Letters with F transferd Opening. J. Lett. 9. 16, 405

Diplication of the inter is no omnoon in a formation but a supernumerary unit in the next is vested opening in rare. An new of the liter turn shows that fifty-one caves of this mailtorn took have negotically to the present time.

Of the several theorie if and t uplus the double extert the most plausable is that there is t separate in one from the obline dust in the process of down for provide the low success of the control of t

are liberated it different times they ill be father part so that the upper actor may be carned out it or below the internal irreliand order. The portion is a superior of the cerbinological safety

1 A double treter may muse I are post le 1 een the bladder and the kilney and capty no

the bludder as single tabe
2. When there he two separat openion the

t hal es of the arrier are distinct in their came to the bladder 3. The arrier opening most conditioners from the crobal of portion of the kehery and that feet

the lower pole occupies the norm I position in the bladder a. When the streter opens into the arelias the

urethral opening is given an the floor

When the ureteral opening is in the agent it

on the anterior all and never on the lateral will.

6 The reter empty mg lowest crosses and let to the name sole and lackled the more somally treated involve.

T In the female, the wreter may emply man be agon, the 1 bule of the vagma, fallopian the term, or Guertner's duct

When the opening, the lower end of the welch so so will been dulated, with as a small will as a fursform so liting. I must restance the diminion extended to the Ladocy which as found to be troplace in the p-rt drained by the superimental vertex.

The emul battory goven as that of constant debing ught old of sace both, no address to read outlarg. In few patients control of facts good has an occasionally seat-need by ethal bearing. He notes with that in most instruct child bearing. He has been also as the seat of the seat of the bootmally placed series is shored used in radius to terms. In the read the seat of the seat condition is suspected and mapple sequences are not received the opening, they price to. When the condition is suspected and mapple sequences are not received the opening, they price the New terms of the opening they price to the seat of the seat should be placed in the reduce and the seat of the seat affected to it extracted their used good. He

her I the location of the opening. If the procut is tally host term should be given three selecery done. I methy have been and the extense were done. I methy have been and the extense with an intervent pit the speer portion of the ladinary my be found trength in contour safe with the preform the upper cash may be messed if the kidner had to prives

I the cases in period the following operations have done of [1] parties in [2] anastronous of the dilated end of the orreter and the bladder (1) anastronous of the plantation of the arcter native bladder for reserving the control of the super-pole of the large for even in which considerable move of the large for even in which considerable move of the large for even in which considerable move the subset of the large form of

dibitation and no infection ligation is ad uable hile in cases with dilatation, infection, and small amount of renal tusor resection is the best procritere

I urrus reports the following cases Case 1 The patient was a girl to years old who ouled normally but complained of constant dribbling of any e. A cystoscopic examination after the injection of indico-carmine should the du na surg from sormally situated right and left ureters. Cot ton packed in the vertibule w a soon found staired just below the meatur. A ureteral catheter in serted for a ra w a found on various pulpation to pass t the left side. After catheterization an attempt a smade to desect the ureter out and t m it has the budder. An inci ion was made through the arrieral and cural murosa and an anastomous effected with cateur. The distal end of the reter as brated and a retention catheter placed in the blidder beven days after the operation the le Lage recurred. At a secondary operation performed three week later the areter wa molalized for distant of 15 in sound passed int the rethrat the bl ther and out of the opening for the neboring of th wreter and the ureter pulled into the bladder fible ing the sound, and secured a the bromic

but the loccustmence as cured (a The patient a oma the re of re bo had a history of incressant drabble g aid normal machinition. Cystoscopy showed to norus is pic d and f retioning reters but the extra ric furtiral opening roul f not be four 1 A upra I final hysterectomy done for I rge f brosd of the uterus. On the right side of the pel-

t tgut. This a eter functioned for only six months,

wit have traperstoneal then f ம ம்கா ter hub extended over the brun of the pely labut in of the right bulney hower a m is the suc 1 a bickery nut on the superior pole 1 right tects tran pentoreal exposure of this kidnes board the dilated arete in front of the other aret

d lovely connected with 1 Th reter 3 clamped I migin from the pel is it knocrend a signt d adding ped and t renal end di sected Plan about) in diamet on to, of the cripnings This in which we resected the s proved t be sac with all a trace t erral toron. The operation it loved by even that overstenence th compet reset of ---CD Burn MI

Laurie T. F. Report of Case of Extreme Dilata tion of the Exeters, J. L. J.

Terrises in the under one miden fit arry in the box walturing but title teryears mailtiter - we the me see times on tell the an t mi hadast si hhente title er t noth patient had had 14 a g tri y ef the 46

of the lack and abdomen and of the right legand thigh It the are of 14 acolorus of the lower dorsal and the lumbar pine with slight rotation

At xamination prither had ey was palnable The prostate flu ad not tender ad th vesicles were not not ble. The can are of the blad let w at There was no residual rie. The escal motora w moth and ghitening At the per t the trigone there as slight concestion ret ral onines were much enlarged the night in nearing bout a cross and the kit bout half that sile C theter could be Is nassed t the Lid ex

On a count of the dilation of the uret ral orances the explicit that fluid introduced it the bluffer outligut the kines. The toscope a therefore removed the bladder was a led th sodi ra brom le through catheter an! et to netero es elogram

mad Sme r nd malin ul tion proved tl beenc of tubercle bacilla nithe unn 1 n mall amount of the will some the common that we will be a second to the common that the co

Inlation of the ureters may be dit oneen tal or acquired mechanical on se infection and d t rhances of in en ton 1 the se resorted there as no explence of obstruction tiary por t the unit is tract. It is possible that the dilution of the uneters and pel es and the traction right ty and thickening of the ball r all ere the result of as to infection t the time of the first ennan symptom 1 di turb ne i envation mast be one 1 of ers prob ble tiokiercal I for but but of too loter regard a the m ers tion nd mechanism i multion prevent cert int on the matter While the known that the ungare tra t is affected in mantile p ril the ex it of the moderness not known it may salde that the pretero ev al | I ted t the point of in these this well reduce the min tom (I II a

Richter J. A Case of C) tie F. lartement of the Vesical I tremity f the Right Lieter and It The threat letter are that you yether the tree do not on an anatom of the state of re 1 10 1 7 30 000 (8

t towners pe i m lon oma o tre of gel pent i ti t t largement! endition with t teral to and every them two H of th t ron 11 behave a et 11 4 t t et as the h rd that th wu t t ti er m nd the mat 11 ١. wenter of mit whe -ו זהו הריו דיוורים der I emiliar t te er leger i ter me treing teren t

Aschner P W Primary Tomas, of the Leet

Forty seven cases of primary epithehil tumors f the surfer collected by the uthor are grouped as follow (t) populion ta, f erty-one () pipuliars

carefromitia, (welve nd (3) non papillary curinomats fourteen.

In four of the cases of Group 3 the growth was a

squimous cell carrisoma, and in ten a cardisoma solulura seu medillare. The author report case of comband squimous cell carcinoma and lencoplatus. Arteschine the collected forty four cases of leocoplatus of the unit by teach of the cases of leocoplatus.

The surbot pulsent was many \$5 years of ge-N-my extune toos there extend it the over of numprom aboved for abidow in the right kidosregion. The unner thou dipre and few red hidocells. Usine from the right reter showed a large quantity of psi and 1 of jew cent user context. Here was no veretion of indige, and bacterial cultures were negative. The anner from the left cultures were negative, the anner from the left cultures were negative. The numerical Takero was ceretical in 1 cells for morning the recontent was of per ceat. Bacterial cultures are negative. App logs m was not made because of the pastern from general conduction.

Thirty per cent of phth dain was exercted to t o bours. Analysis of the blood showed trea astrogen 266, inco guable trogen 247 are acid 41 and creation. 4 The Wassermann test as

negativ.

At operation the right killing is found to be to see its norm. I save. The greatly enlarged pelos was opened and three stones and several minors of filamous exadite were removed. The fourth stone

as removed through the cortex. The thickened in districtured user toped ic juinture. Inchesed of section removed for examination. On culture, the fluid in the pals is yielded hemolytic streptococci. Section showed speakings, cell numbron. Six d.y. later the kidney industrial

t ere removed by the technique described by Beer

When the kalney as split, the pelvis was found to be bifd. The lower part howed lescophila. At the surferopeive pincture the tumor as circular and 13 cm as length behaviourly radium treat ment was given for lecopolistics of the bladder. The patient did not react cill and died of uramia soon afterward.

The dispresses of uncernal tensors is difficult. If the timone is suble and if blocking occurs from the uncert of suble and if blocking occurs from the uncert during the c stoscopic exturnation the dispresses is fairly certain. Y retrogram may be of and show the timor is not suble. Stricture of activation must be retrogram to the sublementation to the uncertainty of the sublementation of the uncertainty of the subject of the subject of the uncertainty of the uncert

four cases in such the tumor as concealed as the dignoses in de before oper tuon BLADDER URETHRA, AND PERS

Schwarz, G. 1 vertigations of the Physiology and P thology of Bladder Function Reseate as the Pathology of the Vertigal Neck (Instrumgen neber der Physiology and Pathology der Blayerfeition auch Pathology der Mandel

Tucke I ned Che o 17

Dy surf and retection is a be proset when the provisite is of a errog size or unaller and thought is normal! I structure and show as one gas already in normal! I structure and show as one gas already in the structure of or her structure and the structure of the

The without d timescribes three types of coord ontractor of the peck of the bladder. In the first t pe there is deposit of newly formed connects w to see properly tely mader the pracons newborn, back forms fibrous tight ring around the orace. The ethology is unknown, but there is mether prost I tas nor connects e treue safitration of the soluncter. The second type is characterized by proponent chrome adammatory politratus d the glandula and muscular traver to address to the other changes mentioned, the bladder ext being transformed into rigid tabe and the nobility of the spherical insisted in the third type there is hypertonia of the sphineter but the webic is eval) passed by the thickest instruments. The is perminent hypertonic of the sphincter made to that which often persets fler years disease

The tre timent of II of these forms is stretched or the incision or excresses of a segment of the spherical in the truns exect nosts. This operation is desired as the confession of the confession of the middle vasible in the Cystoscope. hen the blokks

intelly normal, the conclesion may be dress that the phenomenon has no relationship to relation of the sphinters but may be produced a normal ton of the sphinter but may be produced a normal to the sphinter. The free communication of the pasters with it the bladder is functional phenomenon to the premanent but permanent but permanent but permanent to the premanent but permanent is possible, since the produced of the produced o

an irritating action upon the whiter causing it is relax You Taranaux (2) Aretechmer II L. Finsive Ulcar of the Stadier A

Further Report Surg Grace & Old 1922 200-

kretschmer has added nor cases of charve sket of the bladder to his series, making total of feet tech. If his reviewed all of his cases to determine

C D Promis, MT

whether the treatment given is justified by the end-

The tetology of the leafon is still vague Of 8 case collected, uncluding Humor's fourteen, only tenty-sine were those of makes. The mity three of the latter were reported by Fronts Fr. of the author's patients had been borne children. There are anged from 41 to 60 years. Thirteen had had previous surgical operations muse which were for the immary surgical operations must not the symptons. The distribution of the symptons ranged from 4-bern months of the symptons ranged from 4-bern months of the symptons and the symptons are supported by the symptons of the fourth of the symptons of the fourth of the symptons of the fourth of the symptons of the s

Of the symptoms, i.w. were noted in every case, namely frequency and pain. The pain was constant or present only during mechanism. Hematima was present in six cases and was increased when the badder was over-distended. Urgency burning, teasemus, and backache were variable symptoms.

In hurteen of the fourteen cases accurate records of the turne were obtained. The turne was normal mostly one In seven cases it contained pos. In fer cases the under from both londers was terile, while in three only that from one kidney was terile, while in three only that from one kidney was sterile. I the other, caltimes showed the presence of beafilm coh, streptococa, stuphylococa or diph thereof beafil The diagnoses as made by exclusion

theroad batchi. The disgnoons as made by exclusion. Sections made of all tissue removed confirmed the disgnoors. The mucos, and submicosa were chiefly involved, the muscle, ery little.

In one of the eight case, operated upon recurrence developed, and in another the urms gain showed puts and staphylococo. The patients erafreed of symptoms by folguration to are no longer under observation, and to are improving without treatment.

C D Presart, M D

GENTTAL ORGANS

Felber L. Experiences with the Perinest Operation for Prostatic Abscesses and Prostatic Stomas (Lefsbruegen mit der perineska Operation der Prostatishistense und Prostatistisme). Zinder f red Chr. 9 rs. 90;

The other reports on the permeal operation in tenly-me case of prostate abscases and four cases of prostatic calculi (associated the with rescal calculi). One of the abscases was taber calculated the case of the calculated associated as abscases (one due to the colon bacilim) one was pere staphylococcus abscase in geometries, egibr ere becases in the hypertrophed prostate foliaing a serious infection of the unmary tract, and three readscases (oldesing operations for hemorethoods readscases).

man a serious infection of the urmany tract, and three ere abscisses following operations for historihoids. The persistal operation was done twenty-seven times and the vesseal operation take: Twenty-seven cases were cared. One patient died

and one result is miknow. The rectum was never injured when the permeal route was used. The f ct that this operation is done under direct isson patifies its recommendation. Prostatic tones are also cauly emoved by the perment route.

Legueut Infections of Prostatic Adenomata (Los infections de l'adénome prostatique). Arch d' seel d'resus et d'ergent général-ermèters 0 l, 20

In the past years Legucus has seen several cases in which the patient showed symptoms of acute retention which were followed all a few seeks by the development of an abscess. A permentionry was alone, but as this did not put an end to the complications arising from the unitary retention, Legucus was bliged to perform prostate terminy no one or two stages. The curse of the retention was infection of a prostate acheroms.

Infection of a prostatic adenoma occurs in the aged. It differs from goodrineal infection in young persons. Gonorhees abscesse evolve in the prostate tiself or its numericate neighborhood, the glands being the point of origin. In the aged, a pre-cristing adenoma becomes infected as the result of a general evidence infection.

On section the extirpated adenoms above green this spots, and drops of pur may be expressed from t. On bacteriological examination various organization may be found. Tw. of Legueu recent cases howed standprisococi.

A common type of case is one in which there is acut retention but the supportation remuiss intra canalicular and localized to the interior of the edenoma. A small induration, the localized abscess can be felt through the rectum. The only acute phenomena ar (ever and retention).

Canacily the only difference between a young patent with supporturing reportanties of good-riceal origin and an aged patient with adenomatous protections in that the first may recover completely after execution of the supports on and suffers across contraction from a contraction of only a few days, while the second will not recover and etention will persist because the distinct of the contraction of the contr

The modune of supportation in edecomata cone of by Legicus was as follows admonstrat weighing less than no gim supportation in one surfamematic weighing between the same of the supportation in one fourth adenomats weighing between 50 and 50 gm supportation in one fourth admonstrative weighing between 50 and 50 gm supportation in the section 50 and 50 gm supportation in one fourth of the supportation in one fourth.

Infection of prostatic adenoma is indicated by fever and inequality incrustations, or indurations in the prostate. Nothing suggests a cancer of the prostat more than inflammation.

Legues outlines the surgical procedure which he perfers in different types of cases. Whenever their is infection of an adenoma, especially a small adenoma, there are extensive adherious which render operation very difficult.

Gaulden, C. L. Traumatic Dislocation of Both Testicles. California State J. H. 1912, 23, 190

In search of the literature Gaulden a able to find only fi cases of traumatic dislocation of the testicies

The case reported or the article a state of man y sean of age the father of three children. While at work as a brakens on a log true the patient sea throat from the car and punned between two logs which compressed has abdonce and brake both bones of his right legs in their loss or that Complaint was made only of pain in the groins sed the scrotian task reports of the imprised considerable between masses could be felt which ere very sensitive to the forch. The scrotians was enlarged and distinction that the scrotian marks of imprity. The testicles had been forced from the scrotian into the requal report.

region report. The patient was treated exportantly. On the third day the right testicle as replaced by managerithon without anestheria but the replacement of the left required the use of other. The venus of the cord ere lacerated and thromboard but the epidaly mass and was were not impured. The patient made as uncreasfully recovery. Loon Gross. M.D.

Sheldon, J. G. and Heller E. P. A Compenital Defect of the Anterior Abdominal Wall and Cryptorchildium Report of Case. J. Vinners Sar H. Als. o. 833, 401

EL 401 The patient was a man as years of age. Examina tion revealed swelling a the right lower quadrant. tenderpess in the left groun and beence of the testicles from the acrotum. An oblique nomine as made over the welling and in the direction of the fibers of the external oblique muscle. The fibers of the external oblime the rectus the consocied teadon, and the internal oblique were found thereated The appendix was removed as I showed evidences of duesse. The stropine and testicion as discovered behind the cecum in the retroperatorial structures By dividing all the structures except the as and its artery the testicio was placed in the upper part of the scrotum. The inguinal canal as then closed as in the Ferenson operation, and the bilominal muscles were overlapped and satured. Except for a little dramage, bealing as uneventful

As this operation consumed considerable tim—the replacement of the other testicle, which was pulpated in the inguinal canal,—as left for later operation—C D Propagat. M D

Lichtenstern, R. The Clinical Aspect and the Treatment of Crypterchidens (Zur Khait and Therape det kryptorchimens) Black f and Chr q ix, 85

The author has found sheener of apartmetoproses in every case of cryptorchalsen in adults. As the endocrate function of the testicine also suffers more less. Its owner of times, the discalegated or maintenance of the secondary serial characteristics in endangered (Tandler and Ornes, Kyrisk, Lichten stem). Consider not more of the secondary serial characteristics are obtained by the serial consideration of the serial consideration of the terror of the portrain position.

On the base of his on a observations, Lichtenstein recommends the correction of inlatinal cryptorchid run in childhood. The operation lach his genthe best results is labiteral fination of the operation cord by means of sutures prised through only the heath. The best time for the operation's bettern the eighth and tenth years. Practice?

Bowing, H. H. Radium and Reenigen-Ray Inst ment in Metastatic Testicular Tucces J Rad al. 0. 18, 5.0

Since 0.7 more than thirty patients at time that tunned have been gene raising and day recentgen ray treatment t the Min Class. The majority cames it disapposes of premay notions of the testicile and few with chaptons of or tenome. Most of the disapposes or hand to the disapposes or hand to the disapposes or hand to the disappose or hand to the disappose or hand to the disappose of the microscopic examination. The patients were often me send feeling the market makes and the market makes and the disapposes of the disappose of th

exed. The charation of the cheese across 40 for all supportance than the sare of the timor. When the pulsaries were seen 1 the Clame II as not disfinite to determine the cheef reason for their conclusion and to disappear merivature testicular tower. When stated that they had had resociation to the contrast of the state of the same part of the state of the state of the same part of the state o

Si en a patient les had a prenay timor de the testide removed and whins a for motio complianced of suppriors in the typer ablants and few motion later noted an indomain transtherapeutic tool of our intersive radious trainers may make the chapmons in seven to the story to timor in testicule in origin 1 will decrease a size.

The treatment is practically the same for patients th fair or good health and those nik poor bealth T all patient who will her a mon h or sex weeks intensive treatment should be given. The emb cases reviewed were unadequately treated The records show that a course of from one to 4000 ment brs of radium was outlined and that one of tw areas were exposed to roestgen up therep The principle were instructed to obtain further treatments at home, but sa only few instances was this done In many of the cases the meinstalls tumous have despressed under treatment. The patients seemingly are so good breith and lere returned t their various activities. Their chief more leating arrest of the discuss should be greater than that of nationis treated is the carber SCINES.

I the radium and treatger m) restricted the region of the growth is respect out into mean meaning 3 by a cm and 4 by 6 cm. the sunder of some depending on the time of treatment? The first area treated are small, and when the treatment are repeated the sure of the area is increased are repeated the sure of the area is increased as the order of the contract of the c

cm The radium is applied universal tube applicators with alls of 5 mm fail er and extra filtration mm of lead and mm of rubber 16 the body surface to be readuated is large (from tacaty to thirty areu) the amount (irriduction for each rea ranges from 700 t 1,000 mem hrs. If there are less tha eight or ten areas, ,000 mgm her are deli ered to each unit. The upracta scula glandular enlargements are packed with radium

The tumor may be divided int t o to four areas The adjacent skin surfaces are protected with lead and rubber. The number if radium treatments aries. In some cases one treatment causes the metast the tumors to disappear, while in others two t four treatments at intervals of arc t eight cela THE DESCRIPTION

The present technique takes d antage of the never ideas of deep therapy. The current is sent through broad focus standard Cookdee t be I the first treatments, practically the entire homph tic rist m as exposed in an ttempt to decrease the enlargement and destroy an metastatic nodules

The bilominal reacroposed t radium is not treated th the roentgen ray. The adjacent abdominal and lateral alls re mapped out into areas measuring approximately t 15 cm The supracla scula spaces, unilary spaces, and inguinal glandula areas are mapped into areas sufficiently large t insure thorough irradiation. The formula used at present m quick gap, 3 t a4 cm, distance of skin target, 30 cm milhamperage, 5, filtration 6 mm of shim mum od layer of sole leather and time, fourteen minutes The cross fire principle is used

The patient should be examined tintervals of tu month. If no tumor is pulpable treatment should not be resumed. Most Datients remure from two to four treatments and then rest of from three to four months. If hen the physical and roenteen ray find ings are negative the mafer to treat the symptoms than t ait until demonstrable growth develops Lumbur pams re usually indicates of enlargements

of the deep humbar glands til potients having large r small metastatic tumors but most t fat health to given intense e urads tion regardless of the pathologic report Treatment th Coley mixed toxims is not advised

ben the case is trut seen but may be considered if the case proves ref ctory under radium and rornteen ray therapy

These patients undergo general reaction as ell local reaction typical of all cases treated with radium and the roentgen ray us noress names omiting and knes If the rection is not ton severe the treatment is continued. Is rule four t ux blocks are applied t one time this being repeated on consecutive day until all the reas have been exposed. If treatment is too severe however irradiations are omitted few day until the patient condition improves. For proper interpert tion of the reaction the complet radium treat ment must be m en and then sollowed by the roent gen ta treatment ADDLES HARTLAG M.D.

MISCELLAREOUS

Pflanmer Accurat Chromocratocropy (I valt Chromocysto-kopse) Zighr f and Chr 115

The a thor yeets intra enough h t to c cm of adjectarmine in 41 5 cm of water The first blue color pper after to and one h lf to four minute and the greatest concentration is reached after fi minute. A careful evatoropic examination t determine the positio of the uret ral openings and possible deviations from the orm I must precede the injections. During the observ tion the beanning of the appearance of the blue color the greatest concentration, the dimin tion in the color th length of the intervals between the spurts of urine, and the extent d force of the spurts must be excefull noted with the aid of a aton 1th The examination should be made first on the normal k does and immediately afters d the diseased Lidney because the phenomena follow ing an intra enous injection are crowded t gether int relates h bort so of time A darkened room. and cy to-cope with t mg light are norm requiretes for the test and the findings should be controlled by second observ tion 1 august (Z.)

Electrical D. N. Calculous Anuria Report of Case J Am M Arr 9 3, lvux, 2057

Calculous anursa may result from () bstruction f both Lidneys or ureters by cylcub () obstruc tion of one ureter and loss of function in the ther Ladnes due t disease congenital deform t or reflex inhibition of secretion and (3) obstruction of the remaining Lidney after pephrectomy lowing case is of the third type

The patient woman aged 34 year had b d periodical tracks of pain for eight weeks. The ray showed t small shadow within the right kidney shadow and one in the left. A pyclogram f the right and confirmed the diagnosis of tone. The urine f om the right reter contained larger umbe of leucocytes than that from the left, and phenol sulphonephthaless as excreted in greater quant t and sooner f om the right wreter than from the left

The stone in the right pelvis was rem ed through pyelotomy incision and th second tone, hich was found in the parenchyma, removed through nephrotomy mossion. On the si th day severe rea ! colic on the left side caused symptoms of shock Roentgenogrums were not satul ctory the following t el hours 8 os of urine wer orded. The next day cystoscopic examination showed only a few drops in the bladder. The right catheter drained om in three hours. The kft creter was completely blocked bout mide ; t the pel b

Through an measure in the lumb portion of the left ur ter large impacted calculus was delivered The urms then increased in amount reached cm on the fourth da Except for local nfection recovery was unce entil | L D PREMERLE MD

W lker J T The Relation of Calcified Abdominal Glands to Urinary Surgery Lauri + con

1

During the past few years Walker has extensed forty two cases of manay desiste or supposed unnary disease in which calculation of abdominal plants was found Callided glands represented the limit stage of inhermalisms of the necessite glands, as doeses common in children. The hierature relation are activatively to the citrus stage of the disease an occurs in early life. Next 1 inhermalisms of an occurs in early life. Next 1 inhermalisms of macenteric glands is the most frequent cases of excentions glands and the most frequent cases of deverminated tuberculous.

In the majority of the cases studied one or ta groups of giands were affected. Those most frequently involved ere the group lying in the lower part of the abdomes on the right sade, but in some

cases the glands in the upper part of the abdomen on the left side showed the condition

Reference is made it the nantomy of the abdomnal hymbiatica. In y a pre-cent of the without cases the plands towarded belonged to the sheooks group, and in y 25 per cent, to the measurance group. With the exception of three cases, climical extransation revealed no focus of toberulous elsewhere, a fart which suggests that infection of the measureer shards may be the source of renal infection. The class interest in extended abdomnat gluster from the standpoint of workey her is the di grosses and

treatment in number of the forty-t cauer other pathologic conditions are not in addition. The conditions are not in addition. The cause of position, and three cases of unsary tuberes loss. One seems was pregnant. In t exty eight causes no other disease bondes the educated should could be detected. In these twenty eight monospicated cause the chief a reptom was pain in territy, for the pain, and produced in a reptom was pain in territy, for the pain and the could be averaged in a real moderately and in seventy cases.

The duration of the pair varied from a few minute to see rul hours. It was sudden in coast and smally created molderly I as centrly it as conspurable to meant and blasty cohes and made more as ere than the pairs of appreciatis. In distribution is recombined meants remain or metric from the meant to the constitution of metrical role in remainse on one of the second of the second of the constitution of the second of the

by the drag or pressure of the calcurrosis mass. Blood was present in the tune in six cases in which no other abnormal condition than the gland calculations could be detected. In one case there was severe laterantizen thematiums for eight years as the only symptom. The details of this case are press. Removal of the calcufied gland was followed by caseston of the bleeding and restoration to health. The symbol experience leads has to believe that there was some relationships between the calculate that there was some relationships between the calculate.

glabds and the hamstons. The differential diagnosis between the shadows cast by read and believe calculus and calculed glands is discussed. By elograph, and lateral radiography combined in the prography are the best means of different ting these conductors.

The calculated glands were removed in elevers of the forty-t cases, and in every instance the operation relies of the pain. Such surpoil trest most is metified, he aver, only ben the proprioms

ment is pretined, on ever, only not use we improve re severe and due directly to the calcified glands. A paramedian incision is made to the right or left of the ambitions of care is taken to not injury to the superior measurement ritery and its branches and the frumerous risk addering to the glands.

II A FORTER, M.D.

SURGERY OF THE EYE AND EAR

EYE

Peached, C Preliminary Communication on In-Cause of Dasbetes Insepulus with Batemporal Hemismophs. Bril J Ophia 4 540

During the World War four cases f wounds involving the chlasm came under the author's observa tion. One of these is reported particularly because of the development of dashetes. This case was that of an officer wounded over the night eyebrow March 917, by a bomb explosion and unconscious for twenty days following the mjury In the course of

month the f llowing symptoms were beerved betemporal hemianopia, diplopia, polydipia poly una (from 4 5 to 0 hters in twenty-four hours) loss of hair loss of sexual desire, anhydrous, stagger ing gait, marked authenia, angamia, deafness of the left ear and loss of sensation with absence I the reflex I the right comes. Vision was 6/24 in the right eye and 6/9 in the left

The patient remained under observation f r three years. Treatment by electricity and mjections. f pituitary gland caused improveme t in his conditio he became stronger and able t walk well but the bitemporal hemianopsa, labyrunthine desiness, and polyuna remained unimproved. The coincidence of batemporal hemianopus and diabetes margadus as the esult of invery is explained by the assumption that the shock of the inpury was conveyed from the night eyebrow to the sella turcica and left petrosal bone, thus causing lesson of the chusm, the hypophysis, and the left labyrs th

JAMES P FIREGREALD, M D

Doub, II P and Carter J M An X Ray Demonstration of the Nasolachrymal Passageways -Normal and Obstructed. J Radiel 9 2 m 5

In order to determine the operation of choice in any given case I obstruction of the nasolachrymal passagerays, the thors have been using the rotatgen ray to obtain pacture of the lumen of the DESCRIPTION AND

An itempt is made first to symme solutions through the sac and duct int the one by way of the puncts. This having been done the passageway is injected with Beck. Insurath and oil paste, bout cm being used in cases without betruction, and one half that amount in those with obstruction

The localization if the obstruction with respect to the surrounding structures is saded by placing small miver nder over the antenor end of the middle turbinat just below to attachment to the lateral name all Another method of considerable value consists in outlining the position of the anterior end of the muddle turbunat with strop of busin thip ast

Thus us easily coomplished by means of a long lachrymal needle. A roentgenogram mad in the lateral position will then show how much of the unobstructed passage has above or below the root of the turbunate and whether the obstruction is in front of the turbinate o behind t

Following the injection, roentgenograms are made of this region from several angles. The positions which have been found best are the frontal, true lateral, Waters-Waldron, and an oblique modifica

tion f the Walters-Waldron

During the but twenty months the nasolachrymal nassages have been studied in about eachty persona. including normal persons and those with obstruction In the normal persons number of variations from the generally accepted normal have been found In som f them the passages ay was very tortuous and showed considerable variation in its lumen Moreover while usually the use and d ct are joined end to end there were several cases in which a side to-side imon was found

Of the cases with definite obstruction a portion of the sac was very much dilated in some, and mothers the sac was very small because f abscess forma tion followed by scar tiesne contraction. All grades bet een these conditions were seen. In a number of cases with symptoms of partial obstruction there were areas of construction which caused obstruction only when considerable quantity of lachrymal flux was secreted

The roentgen plate has been of value in several postoperative conditions. In cases in which short carculting peration into the middle form of th has been performed, the exact size of the opening can be noted by this means and fairly accurat prognous made as to permanent rehef of the symptoms. A number of patients subjected to operations for the removal of the sa later complain that they are able t express pus from the lachrymal force The \ ray shows definitely whether the sac has been removed as total m part, and if the latter is the case, how much of the sac remains and is con-dition. This information is of great value to the surgeon in determining whether enough of the sac is left in place to make feasible a short circuiting operation into the nose or whether it would be better to remove the remaining portio

ADOLFE HARTUNG, M D

Woods, A C and Knapp A The Desgnortic and Therapeutic Use of Ureal Pigment in Injuries of the Uveal Tract and Sympathetic Ophthal mis Bull John H pkr Halp 9 xxxxx, 4 9

previous article by Woods, clinical and experimental studies on the immune reactions following injuries t the uvest tract were presented

These showed that when normal healther tool, place without the occurrence of sympathetic distribunce in the other eye, substances developed in the blood scrum which gave positive complement-firstless reaction with an antigen made from the pagment of the uvest tract. On the other hand when normal healing was delived and sympathetic disturbance occurred in the other eye, this complement freature reaction to terment prison was absent, ad in one case of sympathetic disturbance there spoeared to be definite hypersenutiveness to the perment There was also evidence leading Woods t the con clumon that the occurrence of the complement furtion reaction indicates the development of pamanuty t the plement and gives definite protection arginst a sympathetic disturbance in the other

The againfance of this phenomenon with regard to the prognous of this soulier injury undoing the used tired is at once evident. If the conclinions drain are correct, the development in the blood terms of a positive complement feature against planned satingers would warmen at coasile proywithout face of sympathetic disturbance in the other ps. On the other band, failure to develop positive rescence ould indicate definitely that sympathetic obstitutions in the feared and that the ingerted q, should be removed feared and that the ingerted q, should be removed

The possibility of using werd pagment therapeut, cally in a sympathetic ophthalms is also mainlest As soon as hypersensitivity is demonstrable, the self-evident course would be to desensitive the patient and them, as a therapeute sension, proceed

other t acts of presero immensation. The immense rection associated thi intra centar suparese rections associated with intra centar suparese myolung the reveal tract of the even seem as the contract of the

The one case i malignant is impathetic ophthilms thosed positive slim reaction to the intradermit nicetion of pigment. Uvest pigment as used as therapeatic agent. The patient was first description of the pigment and then actively immunized. The

effect of this treatment was apparently beneficial.

This case of sympathetic ophthalmia as that of boy aged 8 years. The condition developed after

boy aged 8 years. The condition developed after an operation for perforated corneal ulcur with prolapse of the tra following gotorrhoral ephthalma. The inflammation was steedily progressive and essoci ted with all the symptoms I the severe type of sympathetic disease doesn't treatment by chet, intestmal armentions, toloramine sweats, mer cury inunctions, large doses of sodium scheviate and non specific protein thempy. Following desensituation and immunization with aveal perment, the process as arrested the eve became hite and free from inflamm tion, and the trumon fell to normal The process continued active for three months but has now been stationary for tw months because 500 The eye shows permeent retraction and flat total adhenou of the me and canadiar oracities. The tension still remains normal

JAMES P FIREGRALD M.D.

Ratmaker R. P. Cateract Extraction with Iridotessy Indian M Ger 1922, 1vil, 337

To counteract the tendency to prolapse of the insafter a simple extraction the following technique is suggested.

After the usual uremon in the corner is made, the is specked up ears the persphery and initial sit, it is man in length, is made in it is the trainful in presence. The signers when cut and the less expressed. The sit in the iris permits the contents of the posterior chumble to except into the wound and thus obviates the possibility of prolapse of the im. This shift does not bead, but it is scarely visible.

and the pepul remains round and central. Instead of the combined extraction, A complete undottom may be performed with extraction. After the conveil occasion is made the use a graped at the pupulary margin, posled out if the wound, and increased to in their two consistency of the performance of the period of the wound, and the period of the period of

SURGERY OF THE NOSE THROAT AND MOUTH

ROSE

Esser J F S hietal Inlays and Cobbiers Splint Drassings (hietallemlagen und Sch stemps er bande) Huerckes sand II knach 9 lm 54

In some cases, it is necessary to incorporate pieces of metal in it flaps used in natual plants to obtain the support required as textuley a say in some necessity with a subjective strategy as an area of the subjective strategy as an area of the subjective strategy as an area of the subjective strategy as a subjective strategy as a subjective strategy as the subjective strategy and formation, as used most frequently but become a summan and various dental metals, such as the Victoria metal, are applicable.

In plastice of the face the parts to be operated on must be completely immobilized. This is done best and most simply by means of a cobbler' splint stretched in an arth over the wound, pasted to the cheek or scalp regio with mastinol, and fixed with a bandure. The portions of the face which must be brought i rward ar held in the desired position by leaving the threads lo g and suturing them to suitable point on the arch f the cobbler sount The cobbler' splint dressing is cheap and easily obtuned it does not exert pressure or slip out of place and t permits easy examinated of the wound. The ound a sprinkled lightly with calomel and treated open. When calomel comes in contact a th moss ture t gives if corresive sublimet tate in dry ounds t does not irritat at all THEORY (Z)

Waltz, M. B. Report of Case of Bilateral Frontal Sums Erapyeons, Subdural and Subpercestal Abressa, with Recovery Lety pacete, 9 XXII, 956

The other reports an interesting case of bilateral frontal simus empyona and subdural and subproacted laboces in male 9 years f gr. Head ache and masal ducharge followed an cut cold which developed about t weeks prior t the first examination.

If the exception of the examination of the head, the general physical xamination was negationed by the general pressure. There was noticeable availing of the frontal region.

extending t the has line bove d to the upper left eyelid below. On aspiration in the frontal regio push as obtained. The nerviewed in both eyes was offen bout to diopters.

The places showed should condition of little shows. A since of the pussions of 4 ph lococci. The last blood count as 4 one.

A killian incress was mad over the left frontal where large subpersorteal abscess was found. The left frontal smus was opened and drained of our Aft rthe complet exposure f the left frontal sime, our was found coming from the right side. The meason was then continued and the right sinus completely uncovered. A necrotic opening was discovered in the left orbital roof. The orbital roof were therefore removed, the thin id, were opened and curetted nd large opening was mad into the nose Pus was then found t be coming from an opening on the floor of th sinus ade ear the midhne On removal f th inner table large subdural abscess was disco red. The wound was packed with gauge through the nose and external opening

With the exception f two convulsions on the eighth day which w re-probably due t pressure from the gauze packing the postoperativ course was un eventf!

J WES C BRASWELL, M D

Husk, D. N. Total Bindoses of Both Fres in a Boy 7 Years of Age Cured by an Ethnold Operation and Opening of th Spheroid Sinus-Lay people 9 xms, 574 Th. how whose case is recorded became 1 talls

bind following cold in the head with severe himorrheas in spit of inequate clinical findings in an examination of the noise the encounters of the conditions seemed it indicat the removal of the major portion of the middl turbinates and currette ment of both withmosts and spaceously. This was done but evidence of disease was found. The tonular and administrate removed it the same time. Three day first the operation them, is prof separallent mast discharge Com. Isocarco then ensand rapidly. Three months aft, the operation all test show do ormal room.

M RIGHT COTTLE, M D

THROAT

Lipshutz, B The Clinical Importunce of Comfication f the Stylohyood Ligament J Am II 4m o hm of

Liph is reports case of unlateral complet ossification of the tylohy od chain with choosing if this parts () the stylohyod process, () the stylohyod parents and (s) the leaser corn of the blood. In this case unlike others reported in the hierature there was no movem it whatever let een the different segments I the chain.

The clinical importance f this condition heshelf in the toraids as it may interfere with the operation of tonaillectomy or gri may in group as improve a feducomfort in the throat Because f

these possibilities the torsilla region abould be palated before torsillectomy is attempted. The receipting ray will reveal the presence of variations in the stylohyord chain.

As long as the process is directed down and adparallel with the carotal stery no trouble a spt to develop but if it is directed medially, as the result of development or training, there may be more or less invision of the plant in

The treatment consists in fracturing the process and removing the distal portion with boos forcess or in rare cases, removing the entire process surpically 0 M Rorr, MD

Jackson, C.: Notes on Peroval Endescopy and Laryngeal Surgery Levy one let a a moil 563

The author discusses () bronchoscopy in asthma and asthmatic bronchilis (2) arachide bronchitis (1) being astenosis of the crooplagus and (4) the disgnosis of foreign bodies in the brags fortiled has pol ted out that in determining the

etables of broachila status; he susceptibility of the broachin inwoost membras to rendretuce and the latabit; and psychology of the patient must be considered. Blocals stress must therefore be releved and the patient hepf from contact; whip per soos is threspection, infection. This use of accures and the intrabroachial application of astrongenia and the intrabroachial application of astrongenia cated. Spine reports good results from the receated Spine reports good results from the repeated use of no per term wifer nativat.

In cases of spiration of a posinit kernel bich sero reported by Chambertin, Murphy and Lis nut the bronchi aboved severe inflammation and contained a thick tenacious mucus. Complete removal of the foreign body by bronchoscopy—ithout the use of an insulative resulted in cure.

Green review the different methods of crooples geal dilation and reports eight cases treated through the crooplygoscope. Musica II. Corna. M.D.

MOUTH

Pfabler G. E. and Widemann, B.P. A Case of T bercular Gingfritis Treated with Apparent Success by Radium. Am J. Rectified. 9 11, 750

Although tuberculous of the oral cavity is comparatively common, search of the hierature failed t reveal any cases treated—th radium

In the case reported by the author the lessons first appeared as small punctate reas scattered about the jum margant of the upper and loser cames and lateral increase and the left lose reciars on both the labad and largeal serfaces. These some bended, forming irregular serfaces of the gross and large area of the left cheef. The ulceration being large area of the left cheef. The ulceration being progressively more defaults and investigation of the manaced alway, furly superficial and showed superred, irregular borders within which were unterspensed set granulations with publish spot of yellow and gray and occasionally covered with closely films of duty yellows the sum. The condition extend much

unision and frequent pain.

A o-man plaque of radium covered with mm of rabber was fixed to a coden tongoe depressor to the property of the pr

After each scance the lessons grow paler and the pain decreased. Ultimately all alceration, mutation, and puin disappeared About four months later when the report was written there as no sign of recurrence. About Harrya, M.D.

Aleroid Tuberculosis of the Salarary Glanda (La tuberculosi delle ginandole askvati) Asso siel d chr 9 2, 3, 7 2

As evolution to the control of the salvary glands is due to Italian research to 6 the salvary glands is due to Italian research 30,3 De Pavlo of Peruga reported the first case of tubercolous of the partoid gland, and in 80,4 keyoli reported the first case of tubercolous of the subenatulary gland. Since then very lew cases of each styling due to the coulomb as a specied in the

As the condition has no special clinical symptoms, it has been diagnosed as abscess or mixed terror

of the glands
Tuberculous of the salivary glands in its typical
form may be classed with tuberculomats. It has

tendency to fibrous organization.

The few cases collected show that the treatment should be operate, and radical. Apparently the granulomata can be removed successfully but in tone of the cases sported was the end results know.

M.A. Bracha.

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International Abstract of Surgery

Supplementary to

Surgery Gynecology and Obstetrics

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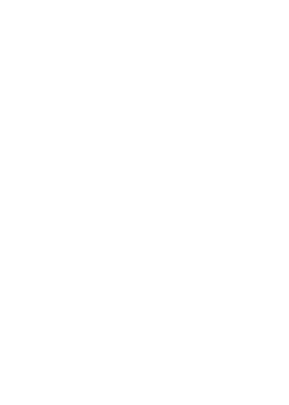
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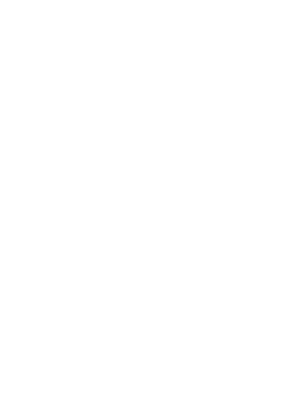
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EDITOR'S COMMENT

In triving to present to the readers of the International American Sungary all the target and worth while in surgical iterature, the chitom are not unmiddful of the fact that much that is old in surgical practice needs to be reviewed, and restated and critically analyzed. Certam writers have the happy faculty of locating old subjects with new interest, and bringing to bear on them the light of wide experience, of critical intelly and fresh enthusiam.

Four subjects in widely separated fields stand out as particularly well represented in this months contributions to the American lung afacers panerestic disease, the diagnosts of hone learns the treatment of chronic affections of the knee joint.

eritor for

THE treatment of supportative disease of the lung is document in three articles, appending originally in the Archive of Surgery. Hence and MacCrearly (p. 201) and Lockwood (p. 20) disease the question of lung abscess, and Luno (p. 201) that of chronic supportative disease of the lung. The importance of conservative measures of treatment and of extreme care in the selection of cases for operation in particularly emphasized by such water.

A CRITICAL discussion by Jones (p. 335) of fifty as cases of acute pancrenture, reports by Ragby (p. 345) and Norus (p. 376) of individual cases of pancrenture due to include discussion of pancrenture due to the other cases of catenaries, and the report by Grebow (p. 327) of three cases of catenaries, including one successfully operated upon, the patient being still ain- first years later coorditate an interesting group of contributions to the climacil study of pancrenture. In addition, Mann and Giordano (p. 344) discuss from an experimental standardon the question of reduced bale as an etalogical fatter in the production of pancrentura. The conclude that such a mechanism rarely produces renormalism.

THE diagnosis of bors lesions is a subject of vital interact to every practitions of surgery and metalene. The importance of only diagnosis has impressed itself on every migrous of early forecast seen, it only once a so-called case of simple factures go not malignant degeneration and, too often, to a fatal termination. Seven different abstracts on cyric and malignant disease of them, including several on mycloma, appear in them months same. One by Biologod (p. 130) de voted entirely to the question of diagnosis, deserves exceeding attention.

HRONIC, non inflammatory lemons of the knee foint are so frequent, so completely deathing and so prope to recur that their treat ment is of particular interest to every surgeon. Henderson (p 336) and Cotton (p 344) present an exhaustive discussion of the subject based on a wide and extensive personal experience. Mc Williams (p. 342) discusses frequent aspiration of the knee joint in traumatic synovitie and Frieberg (p. 334) the less common condition of esteochondutes dissecutes with production of loose joint bodies. The report of the Commission appointed by the American Orthopethe Association for the study of tabularing operations on the foot (p 146) is of particular interest, not only because of the findings of the committee but because it represents a step forward in the atandardination of surgical practice. The purpose of the American Orthopedic Association is not in any sense, we assume, an attempt to dictate surpoal methods, but rather to enable the less experienced surgeon to profit by the experience It me were man who can profit by the mutakes of others, and it is to him that this report will appeal most strongly

A NOTE by Howard (p. 289) on the excessive one of cathartro, after operation calls at tention to one of many details essential to a quant and man-entful postoperative convidencence.

INTERNATIONAL ABSTRACT OF SURGERY

MAY 1923

ABSTRACTS OF CURRENT LITERATURE

GENERAL SURGERY-SURGICAL TECHNIQUE

OPERATIVE SURGERY AND TECHNIQUE

Grant A. R. No-Hand Touch Technique Surg Greek by Obes 0 3, XXVI, 26

The technique described as as follows

The instrument nume threads the needle with sterils forceps, not touching the gut or the needle ith her stores

The surgeon transfires the tusue, pulls the needle through with needle holder and catches both strands of the suture near the needle with disacting forceps in the left hand he pulls on the left end

forceps in the left hand he pulls on the left end with the left-hand forceps until the tught short end is only if in from the point f transition. This long end should be proximal, and the short end dustal, to the operator.

If he the point of the needle holder across and

A! Is) the point of the needle holder across and on top of the suture just below the tips of the dissecting forceps and makes a loop around the needle holder.

If catches the short end of the anter with the morells holder, kerping to true close to the site of the knot hile the left hand pulls the first half of the knot tight. If places the tigs of the needle bolder benerith the suture and makes second loop which completes the reef or square knot.

JANES A H MACOUY M D

lloward, C. A. That Baneful Cathartic after Abdominal Operations. Canadian M. Ast J. 9 3 xm 36

I soo cases of peritonitis treated by the other objectoperativ cathartic was given. It is Howard belief that better results are obtained by allowing the patient it remain quiet than by giving him dose of caloned. Fee days after operation, thereby making him resiless.

The interance be states will return than normal function ben normal tone returns. The damma tration of so or of salin solution daily for three da a by Nurphy drip is usually all that is increasing a sone cases Howard does not give cathartic.

until eight or sine days after the operation, and in others not until the patient goes home

It has been noted that omiting is made worse by purgation. In severe cases of peritourin cathartic in very harmful and at times exceedingly dangerous. When the bidomen is distended, purgatives are once than nacless.

The author tates that before he adopted his present methods his results were scarcely as good as the erage, but since then they have greatly improved Gizonot E Beiliss M.D.

Cattell, M. Studies in Experimental Traumatic Shocks The Action of Ether on the Circulation in Traumatic Shock. Arch Surg. 9 3, vs. 41.

This study was undertaken in an attempt to distermine the effects of either on the factors which induces the blood pressure, with special reference to shock or circulatory failure. The author first considered the effects of either on the blood pressure, and then it action on the beart, the vaso motor system, and the blood vessel's

The interpretation of blood pressure changes caused by either is extremely disficult. According to the literature on this subject either properly administered to normal subject either properly in the blood pressure and may even cause. transition in the blood pressure and may even cause transition in the blood pressure and may even cause transition in abock, circulatory collapse frequently occurs.

Most of the author' experiments were performed on cast I determining the effect of either on the blood pressur or determined the effect of either on the blood pressur or structured an analyst the entropy of the effects on the blood pressure were strakingly different after the development of about, in the course of work at the laboratory it was noted that higher concentrations of nativous orade may result in fall in blood pressure nearly as great as that due t either In some of the animals it was unopeasable to obtain complet abolition of the even

reflex without a fall in the pressure but this fall was all ays fem than that resulting from other

The experimental endence regarding the effects of either on the heart strongly favor the assumption that In the concentrations of ordinary assertions, active causes decrease in the efficiency of the heart which might account for any fail in arterial pressure occurring under either ansiebasis. With regard to the effect of either and chloroform on the vision of the effect of either and chloroform on the vision that the effect of either and chloroform on the vision of the effect of either and chloroform on the vision of the effect of either and chloroform.

The evidence obtained by the arthor supports the supposition that the drop in present classed in the aborder assumal is due to some disturbance of the reasonator system. The increase of the effect of either in blood does not apply to other injected directly into the curvations in small amounts being time only for the inhaliation experiments, when growns are other to the periments or act of final through experiments on the periments and tall of through the other through the periments and the forther or act of final through

the vessels of the hind legs of the cuts used by the thor during the development of abock due t muscle injury t as found that as the blood pres

sure fell there was gradually increasing construction of the peripheral vessels

The following conclusions are drawn:

I the normal animal the inhalation of strong other results in a sodden drop in the attental pressure which is temporary. As the animal-head despite, the pressure gradually recovers until, by the time the cyo reflex has disappeared, it may have returned.

to its original level. I the shocked amount there is no recovery of the blood pressure after the primary fall, and the pressure continues t fall t zero even before the

presente continues (

c) refer disappears 3. Nitrous onde and oxygen, in the most favorable proportions, can be administered to the shocked animal without citising more than a slight drop in the blood pressure.

4. Observations on the beart volume of normal cats and on the contractions of the noisted hearts of cold blooded assumals, together with deductions from blood pressure records, about that from its very beginning, the administration of other results in depression of the heart and decrease in its output which is sufficient to account for the fall in presure in both the normal and the shocked nimal

5 The fajection of large doses of episephras istra smooth; in shocked animals equally results in the disappearance of the ensus ensus t ether for a period of an low, or longer. There is reason to beheve that this is due to an intigonitie action of the ether on the heart. Putulary extract does not sufficiency the pressure drop caused by ether is not sufficiency the pressure drop caused by ether is

the shocked sarms!

6. Determinations of leg rolene sub pletty, mograph, perfusion rate measurement, the results obtained by the superious of ether disrectly into the curcuitions and the form of the blood present curves indiced: that ether causes contraction of the perspheral version. The construction of y of due to (1) direct alumination of the visionosis court of (2) a refusion to the flat personer result.

y in the blood pressure curves resulting from the administration of eiber t the aormal simil the pressay drup is due probabl to an influence on the heart, and the subsequent recovery of the

blood pressure to compensatory reacconstruction 8 In the shocked animal no evidence of vasoconstruction regard by other as obtained, and pressor effects from applying or generally see

stimulation became less or ere inturby beent of The condition of other sensitiveness is brought about by any circumstances which tend to depress the animal greated condition such as low blood

the animal general condition such as low blood pressure, kemorrhage, severa operations, or the injection of send into the circulation

The cause of the greater depressing influence of other on the blood pressure in shock appears to be

disturbance of the vanomotor system. The usual compensator, construction so longer occurs to off set the decreased output of the heart and the pressure continues to fall. This might be due to a depression of the vanomotor center or than already present maintains toos of the credit.

Grose E BEILET VID

SURGERY OF THE HEAD AND NECK

TYPAN

Da Pano, O Horpetic Meningo-Encephalitis in Rabbita. I Pais & Societal 915, 2271, \$5

The escular find of all types of herpes, a bit possible exception of herpes assist contains a virus which ctuest death when it is injected into rabbats. Regardless of the roots of transmission, the disease may be carried from animal to summil it is not jet known bether the runs in slightly, and its cultural characteristics are still undetermined.

One of the principal localizations of the disease as the central peryous years here it expects an inflammatory leave characterized by diffus small cell unfiltration, nerve cell degeneration, and problem tion of some of the first cleane to of the histonic memorphism, and pose. The disease has been termed "herpets memorp emorphilitis."

While in inharpic compilation, near cell deges entation is rather focal and the soft numbers or frequently statistical, it is straining that the discr ences should be no presser better an disease of the central nervous system in min and disease set the central nervous system in min and disease set in facility produced in minimal. In the second the bodies found than and central of the training service system in case of letharpic exceptabilities. It is suggested that these granular structures may be the virus or particles of organi material to which the virus is attached LOYAL F Davis M.D. the virus is attached

Knoll, W The Picture of Hypophyseal Cacharla (Beitrag sum Bilde der hypophysiseren Kachexu) li sen Arch f sanere Med 922 17 555

The author reports case of hypophyseal cacheria a man 3 years old who died from pulmonary tuberculosss. Within a period of year the patient failed visibly, showing loss fenergy marked emaci ation, loss of hair increasing spathy and mental clouding Because f the pulmonary disease the diagnons I hypophyseal cachesta was not mad

A torsy revealed, in addition to the pulmonary t berculosis, tuberculoss of the anterso lobe of the hypophysis (adenohypophysis) The posterio lobe as entirely normal. In the anteno lobe there were few ectodermal cells, but a considerable number of

connophile cells

Etrological factors of hypophyseal cachesia in clude puerperal separa, tuberculosis and syphilitic processes Summonds believes that septic embolism of the stery supplying the anterior lobe is the cause in women with a febrile puerpertum and this results in complete atrophy and fibrous transformation Cummat and tuberculous may lee cause the dis ppearance of the terror lobe (the cases of Fab Scenger and Reye) In partial atrophy the signs f loss of the gland are beent, the condition being recognized only as a secondary finding at topsy

The chief symptoms of the condition re pre mature senifity loss of hair a decrease in the function of the sexual glands, and paych changes

t period of hi t which su h changes do not usually occur

I the treatment the tiology (syphilus) must be considered in add tion the diministration f fresh hypophyseal substance is indicated

The author rega de hypophyseal cacheria as ducate of se ual maturity caused by the loss f function of the anterior lobe of the hypophysis

buch reacts upon the mature sex glands. H calls attention t the hange in the fine structure f the antenor lobe d ring pregnancy and ascribes the ery destructive effect of the septic embolism of this anterior lobe in Summond cases t the fact that it affected organ in the process of involu-ntion t the liknow phenom tion II calls attention t the enon of loss of hair in women fen eeks fter confinement watch he timbutes t the marked physiological ct vity f the hypophysis t the time of premaney Roment cars (2)

Thompson, J. F. Atypical Pisetic Operations for Congenital Fiscures f the Lip and Palate Sure CI I Im o

The utbor describes t cases of 13 pocal plastic operations for congenital fewures of the lip and palat I repairing complet fastire of the hp extending

unt the nostral the curv f the deformed nostral must be restored so that it will resemble the sound

one in every detail, the lip must be made long enough, and the vermillion border must be restored

In the first case that of 6-year old boy there was a congenital frame of the lip and palate m which the hp had been operated upon t are unsuccessfully with consequent complete destruction of the phil trum On the left side the finance of the lip was complete int the nostral the sheedar border was cleit a d the fasure extended backward through the hard and soft palates. On the right side the murgin of the nostral as muset, but the rest of the lin was fractived. The anterior margin of the alveoluborder was grooved t the muction of the maxilla and premaralla. The original skin (philtrum) covering the anterior surface of the premarilla had been destroyed and replaced by a thin layer of enathelium of low vitality resting on a base of dense scar tissue. In several areas the surf co was ulcer ated There were no erupted teeth in the premarilla and the X-ray showed the presence of only ta tooth serms, which doubtless represented the per manent central incisors. The temporary teeth had probably been extracted during previous opera

tions. On the paintal surface the union of the maxilla and premaxilla was complete. The septum was attached to the right edge of the palatal facture. The premax ille was separated from the front of the left manife by an interval of bout 3 mm. The pilatal plates on both sides wer very precipitous. The free edge of the left palatal plate was fully a mm humer than that on the right side which was attached to the septum. The palatal feature was not more than 5 mm wade t its widest. The mucous membrane covering the palatal plates was entirely normal. N. oners. tion had been performed on the palate

The f llowing sequence of operations was decided upon () repair f the palate and replacement of the premaxilla (2) repair of the hp and nostrals

Repair of the palate Langenbeck side incisions age made and the pal te was repaired from end t end in the usual manner without difficulty. Mat tress sutures of all-sorm gut sere used in both the hard and the soft pal t A wedge-shaped portion of the septum was removed and the premanila pushed back int place. It was not sutured to the left side of the marilla but was held in place by simp of obesive phaser pured over to anterior surface and fastened t the cheeks. The palat healed from end t end by brit intention. Unfor tunst by the dbeame plaster unitated and destroyed the skin covering the prem tills therefore it was removed in thirty hours. In consequence, the premaxille did not stay in cont et with the left mixille, but projected forward again

Three months later the premanilla w molded int place After denudation I the opposed aides of the premaralla and the left munita a ril er age suture was passed through the front of the left maxilla and around the premaxilla, and the tw bones were brought into cont ct. After three weeks the are as removed Firm union resulted

Reselved the life The philtrum had been completery doctroyed during the previous operations. and the mithelal covering of the premarile was of such low vitality that it was useless for any purpose The left nostral flared wide open and the als need was separated from the columella for a consider able databes. The right nostril was completed by a ring of normal tassie. Below this, the right margin of the cicit fitted outward at a sharp angle. The margins of the cieft were separated from one another by a dottance of 32 mm. Just below the also need, and by distance of as mm at the free edge of the lip. It was intended to make a transverse melson into the cheek on each side fast below the postrile and bring the two flaps toward the middle bas so that ben they were united by their menal edest they would cover the premarile and form a new out and to point next below the outer angle of the orbit. A vertical cut was made upward behind each ale ness to hiberate it and allow it to be carried inward in curve toward the posterior end of the cohenelle to which it was subsequently attached. At the posterior end of each transverse messon a transvelar area. I cheek was finally extend to smooth out the fold or pucker that resulted when the flaps were put under tension and their tensor ends were united. The free honer margins of the flaps were pared exectly as is done in an ordinary harehy

overstion and then united The result was ery astaslactory from the oners. tive standpoint. Good firm union occurred from end to end From comments standpoint the result was not so pleasing. The nostrils were fairly satisfactory. but the lip was probably too long (deep) although ft m a little early to speak finally on this point. As time master the pose will straighten riself out, the nostrals will become less promisent, and the up will become narrower. The most serious disappointment is the mouth. The angles of the new mouth are drawn ery close together and the lower hp has been thrown into an ugly prominent curve with

everted mucous membrane The second case, that of a 5 year old god, was case of complete unilateral congenital fisture of the hp and palate on the left side which had been oper ted upon several times. The up and nortral showed serious defects. The pulate had suffered severely showing complete loss of the central part of the velum on each side and pregular union of the muco-

periodeum zo front

The general contour of the lip was sot unpleasing It was of the proper length (depth) but there was no notch on its tree margin. The miscountaneous line as defective, showing distract break. The left nostril was considerably out of place. Its aperture lay on plane posterior to as fellow. The als ness was displaced outward and backward, and fared so sa to expose on the surface a demakine of mecous membrane which, under normal circum stances, would have been bying on the floor of the nasal passage. Just below this demiline was deep packer or crypt. The nunbroom shaped curve of the under-surface of the nose was quite flattened on the left side

The alveolar horder abound CTY DALTON BARDON between the left central incomes and the canne No evidence of the left lateral uneven could be found. It may have been removed at one of the previous operations. The palate immediately behind the alrealer process was might for a short decrease Then came an arregular flasare, mm long and finally a line of umon which reached t the level of the posterior margin of the hard palate. From this poent the middle of the vehim was missing The lateral parts of the voken were prolonged back ward, diverging widely into the pulstogious and pulstopherynger muscles, between which on each

ude lay the tonal. The tomals were unusually large The following sequence of operations as decided upon () removal of the tomile () plastic repair of the lap and nostral, (a) reconstruction of a new soft palate from the palatogiosa and pulatopharyness and the pheryngral wall (4) closure of the feature us the hard palete

Up to the present date the first three steps ha been completed atturactorily

Removal of the toursely. The toursely were described out May 18. a with extreme care to preserve both palete attacles intect

Plattic reconstruction of the hip and name. This are doon Tube 6, to An increson was carried from the too of the nose backward long the under perfece of the models of the columella to its reactors ath the philtrum, thence outward, below and parallel to the margin of the nostril, across the scar of the repaired he underposts the six nan in a curve, and finally downward in curve until it reached the red line of the hp at point previously fixed. The puckered scar tissue and depressions were removed. The dissection was carried between the alar cartilages until the lower edge of the cartilagmous septum was reached. The crus mechale of each cartilege as separated thoroughly from the aide of the septum behind and from its fellow cartilers in front The airc curtilege on the affected side was pow made t slide forward on its fellow carrying with it the displaced nostral By this manorayre the margin of the messon on the affected side sipped forward on the other margin which remained fixed. The edges were then sutured in their new position. It was necessary t carry the medica increon in the columella farther forward over the too of the nose m order to separate the alar cartilages far enough t let the left certilage slide forward. This brought the scar mto vars. At first it was rather objection

ble, but us few weeks as scarcely noticeable Resettraction of new reason as exercity cottenties and plantyness on the plantyness will have specified under the reset of the plantyness and plantyness on the plantyness will have specified under the removal of the tousits the deep surfaces of the paintogious of the paint of the plant of t and palatopharynges had found together except t their extreme posterior ends. There accused to be ery little muscular tunne in them. They alway

appeared to be nearer togethe before anaesthesia than during deep narcoss. Probably the gag had something to do with this

The palatoriomus was cut as near the tongue as nomble and the increson carried upward and out ward into the cheek through the mucous membrane hning the angle between the posterior ends of the maxilla and mandible. The palatopharyngens was then cut wher it fused with the pharynx and the mosion carned through the pharyngeal mucous membrane as high as the custachian tube. In this menner a somewhat curved triangular flap was throw upward and inward. The base of the flap abutted on the posterior and I the maxillary alveolar margm and its blood supply was derived from the descending palatine artery Short Langenbeck side incusions were then made along the inner margin of the alveolar processes on each sade and the remant of the velum palets lifted up from its bed until it was free from all tension. Finally the messal edges of the flaps were pared and actures were passed Following the author usual custom, vertical mattress statches of allkworm-gut were made Umon by first intention f llowed. The recun structed palate was firm and strong, although some what short and stubby

At the time this article was written the finure in the anterior part of the palate had not been repaired. This operation will be postpoined for sevtral months t allow the posterior part of the palste to become thoroughly vancularing.

O M. Rott M D

McWilliams, C. A. and Dunning, H. S. Rhinophaty and Cheek, Chin, and Lip Plastics with Tubed Temporal Pedicied Fortpeed Flaps. Ser. Grac. Scilic., 9,3 mm.

The authors are of the opinion that transplanted cartilege usually remains permanently in position

and is acidom absorbed even though X-ray examination does not reveal its presence. For the insertion they prefer a trunsverse incision (Fig. 1 A) as it does not leave a noticeable scar and is not apt to become infected. This is adapted t cases in which it is not necessary to movinde support for the col-

hmedis
The Indian and Italian methods have many faults
The Indian method leaves an unaghily sear in the
center and most promisent part of the forehead
By the Italian method skin from the arm as trans
planted with difficulty. Moreover, this skin is not
the same color or texture as that of the fact.

For most plastics on the cheeks, chm. and nose the temporal pedicled forehead flap, t ken from behind the hair line, as the most suitable and gives the best results. The objection that the transplanted flap grows hair is not important for the hair can be permanently removed by the \ ray in short time. A flap is obtained from the side of th forehead its base containing the superficial temporal artery. The most surface, including the penera nrum, is undermined. A Thiersch graft is applied to the under side before the transplantation is done cartilagmous support is needed, it is procured from the costosternal juncture and maerted between the akin and pencramium of the graft, the flap being then left in place two weeks before it is trans planted. The blood supply is adequate, and the flip remains soft and plushe on account of the Thierson grafts on its under surf co (Figs and 3) After three weeks the flap is freed and replaced o the forehead. The edges of the wound are freshened and entured with interrupted sutures I sill worm gut. At the same time any remaining defect to the ionshead a covered with Thierach grafts

In the thora opinion the equits of finger transplantation to correct natal defects are unsatuda tory William J Present VID



Fig. Incusons (Sterkan) and for merrics of cartilage unto saddle see: (a minglabellar measure preferred by the nathors B uncer can have no soon. C, she messo for mercican of cartilage intendity. B, housewild seed pacasion, not mercon of chosen because of danger of melection

Fig. Tubed padris forchead flap takes 11hm the har hos of the right temporal region and reflected int the nove.

Dig 3 Side wars of found result

Taundg, L. R. The Radium Treatment of Car cinoma of the Mouth. Med Clin Y Art. 9 4, 183

A large percentage of the cases referred for radium rectainest at the present time at the bayeries ones which he been treated ansaccessfully to surgery or in which the needing of expert actives has been deterred until the possibility of cure has passed 1 spate of this the number of suifulactory results has been eccouraging and soon it till be possible 1 recogning the class of cues for reddotherapy ig on

lone or in combination with surgery

The wither report three case it illustrat the
types of mouth malignapery and life for radium

treatment
One cree as that of situs 40) crit of ge who first noticed a uther on the right sade of his toogue about frou months prior to the initial examination. The lesson was a hosare like theration in a hard soddly mine extending from part is from of the time mine attending from part is from of the time of the initial projected well over the midline. Lors as ruled out by the Westmann test. The lesson as too triens a for surgery or the cital cautery. The treatment of choose in this case was unscreened the forstune.

emandion. The twhee are inserted in the miligrant tissue rather than in the normal twee surrounding the makes and the training pole in the torque and in thing smallly begins about one will let Pla person in thing exactly begins about one will let Pla person in the manufacture of the person of th

t besof the em nation should be inserted In the second case the author found t mor on the laner surfac of the left cheek of an pholstery worker about one year go The leuon hard, about 6 cm in diameter and about 's cm high The ghads were not palpible. In tabes, totalling o 5 me ere inserted into the mass. On account of the suspectous pipeur or ! the tongue mixed treatment as given for time under the impression that the carcinom in ght bades loned on loctic base II thin a month the truction subsided and the m whad ensuch received months after treatment hemorrhage occurred In months I ter an rea of micreasing thickening was noticed Additional tre tracest of four frare t bes was then given Fre months ago hard nodule developed t the tip of the tonget I bare t bes totaling a me ere married into the m +s The tongue is still tender but there is no ev dence of recurrence at the present time. The thor feels that this case h responded ell t radio

therapy.

The hast case was a nodul—alterative hard lesson of the postgrior edge of the soft printe involag the left sale of the uvula—1 course of theselve therapy gr on a spate of negative blood Wasser mann had no effect pon the granth. I our bare

tubes ere then inserted int the tumor. One month later one have tube as inserted in sub-pictors area on the left sade of the uvall. Only one week has eltiped since the last treatment but entire area feels soft. The everycal report was given a course of \(\times\) ray irretment soon feer the first bare to be traatment. I was \(\times\) in \(\times\) in \(\times\) in \(\times\).

Simpson I' F : Carcinoma of the Teogue Treeted by Embeddi & Glass Ampoules Containing Radium Emanation. Charge M. Esc. 9 3 xbv 470.

The embedding of glass ampoules containing radium em stom is superior t. the usual methods of pilying radium and better than surgery because. Only have the contract of the contract of the contract (1) the effect of the radiation in the contracts select of the contract of the contract of the the normal user cells (1) the effect of the radiation crited it least on beyond the set of the annolus (1) the decay is exist and (6) transaction is

int mail

After local narithes: is obtained the glass an poules are builed in buerted into the sharp end of sterale accule hack admit a plunger the ter end. Before the aspoule is spected by the planger the needle is itbdrawn a few millineters in order to present between the amposite by forcing

it against the twise. Use It from \$\hat{b}\$ to fifter ampoules re-inserted into the timor tissue. Fich contains since The ampoules are placed bout it is apart and allowed to rem in permanently or usual they slough out in the course of healing.

The radio-act t of the imposles is lost in about four-teen day. Herling occurs in from four to eight ecks and unuall less extended to interest when the contract in the contra

M N FEBRUSIUS MD

MECK

Glogau, G. Abservers Descending from the Unper Al Passages 4, Sack M. I be Vol. Re. 0.3 xx 39

Glory has orked out an operator procedure for because descending into the deep tuenes of the neck from the region of the pharting the touch the base of tongue or other nearby stract res A the course down the next, is the time. It tever the ones of the cond too the method is policable t every case. I sky uncomon is made over the anterior margin of the sternocleidomastord muscle from the les of the posterior angle of the ja t the jugalist fusia B blunt dissection the superficial tissues re numbed back and the ant nor margin of the ewel sheath is retricted the onsolvoul at and the anterior medistra in exposed. I timpor of gruze is inserted to previat the purulent material from entering the medicatmin If the atenor mediastmum has already become infected if > druned B lifting the thyroid forward the posterior mediastinum and the peri-croophageal tissues are exposed. Another tampon is inserted in this region. The abscess is located by sharp and blunt dissection begun at the upper angle of the wound and no timed into the depths, and is then opened

and drained.

In the after treatment the mediastinal tampons are removed about the fourth day and the drains into the buces are removed according to the indications. A careful pharyugeal examination is

great aid in the final stage of the operation

The uthor reports three cases in which he used

this method with complete success
RAIPE B BETTICA M D

dans Clands of the New Are

Labey F H : Tuberculsus Glands of the Neck and Spinal Accessory Paralysis. Surg Cli N An 9 u, 909

T berculous infection of the cervical glands is usually located in front of or beneath the sternomastoid muscle, opposite the angle of the jaw and is common on both sides of the neck. Palo tion is important in the differentiation of simple inflammator, glands tuberculous glands, Hodgian duease, and malignancy T berculous glands may be discret or fused, depending upon the amount of cascation and secondary infection present. They persent for months without evidences of cute inflam mation Tenderness occurs after caseation with secondary lamefaction and infection. Tuberculous may be associated with Hodglan's disease. As rule, fever appears only after secondary infection The author has never observed the minultaneous occurrence of cervical, axillary and inguinal tuber calous dentis When ctinomycosis can be elim-mated the presence of a chronic sinus suggests tuberculous

The treatment comusts in

Removal of all possible septic foci dratting int this region, such as teeth, tossals, and adenoids. The tossals are frequently the port I of entry fitbe taberele betill. Septic foci saturate the glands with totic substituces which lower the resists cot infection by the tuberele betillis.

Supervision and control of the patient living conditions

5 Increson and drainage of broken-down glands with secondary infection. Large incissions are not necessary. 6 Radical excesson of the glands in certain exten

and perestent cases in cases of discrete and localized glands which are easily removed without extensive discretion and failed it disappear when other measures were used and in cases in high the disease continues it spread in spits of conservative treatment.

Drisson or injury of the spinal accessory perve is simple incision or radical excusion may cause trapezius paralysis. The thor has previously re

ported twelve such cases. In some cases the nerve was carefully preserved but persistent paralysis resulted Spinal accessory paralysis causes lengthening and sagging of the shoulder The scapula falls away from the midline. The upper angle of the scapula is prominent on account of its support by the rhomboid muscles and on account of the sagging of the outer angle due to the weight of the arm. The arm can be abducted slightly less than 90 degrees In cases in which the third and fourth cervical and the spinal accessory nerves anastomose to supply the trapeuros muscle the trapeuros may function through the cervical plexus after injury of the spinal accessory nerve In extensive dissections, especially about the internal fugulars the third and fourth cervical nerves may too be injured

WALTER C BURKET M D

Hartzier A. E. The Technique of Thyrotomy
Ann Old Eined & Laryngel 9 xxxx 3

The utho describes the f llowing technique of external operation for the removal of intrinsic tumors of the laryex

For a distance of 245 in with its and point over the beight of the Adima spole, the kins is indiffrated with a local anexthetic. From this line the rubdormal tusines down to the surface of the cartilage are meeted and the superior largueal nerves are blocked. The larguages invocas is then anexthetized by passing the needle obliquely through the encothyroid membrane and through the thyroid cartilage, the solution being introduced between these structures and the mucosa.

A vertical incision is made along the line of primary infiltration, and the vessels are clamped and ligated. The thyroid cartilage and the cricothyroid membrane are exposed These structures are split exactly m the midline di sting the cartilage and the mucous membrane. The edges are retracted and the yoral cords located. After the mucoes is cut the two parts of the thyroid cartilage are carefully retracted with small retractors. The entire interior of the larynx is then exposed to view and the necessary operation is done. After the opera tion, the retractors are removed, the cut edges of the thyroid cartilage being allowed to resume their natural position. The fascia over the cartilage is united with interrupted catgut sutures. The Li is closed a th horsehour

ARTEUR L SEREPPLER, M.D.

Jackson, C. Center of the Larynz. Jan Serg 9 3, Izvu,

The thor states that cancer rarel if eve develops in previously entirely normal lary

For all clinical purposes the term precancerou condition may be defined as any instologicall abnormal condition intervening bet een the normal and the cancerous

Vocal abone should be considered a factor in cancer of the laryn Persistent vocal abone is one of the most common causes of thron laryngits keratoses, papellomata, and grasulomata. When perpetuated by ocal abuse and other causes, these conditions may favor the development of cancer.

Extraor of the ventricle should be placed to the precaserous class of conditions. Joes ease the author as able t mike a definit diagnosis of casers on the ame side as the eversion ten years after the eversion as first discovered.

I twelv of the author' cases of cancer of the lary a factic leuon preceded the cancerous leaon

lary a Boetic levon praceded the cancerous lexon. Denested tomais about be considered a cause of cancer of the larm as forcil jufection in the tonsil may be the chief etological factor in chronic laryoutta and chronic laryoutta may be a per cancerous conduction. The whose how never that the chief factor in the toology of lury nevel laryoutta produced the manufacture of the contraction of the contract was a contract that the chief factor in the toology of lury nevel large lounting, granulous as a some form of irritation, including that due to t uma and chronic indiamation.

The weal cords is the parts of the laryns and petrel if the most frintation. The uthor has seen to case in which an sociated cancerous leaves to constitute the control of the control of

It is difficult to obtain such rest as the dust) atmosphere in most doclings is injurious.

Laryngecton is so multisting that it is unless to use it in the treatment of a chronically influed.

lan merely suspected to be cancerous.

A ratoria and similar overgrowths of epithelium occurring in adults are to be dealt—the as potentially percancerous conditions.

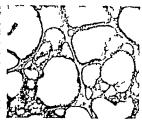
JANUS C BRASWEEL, M.D.

Giordino, A. S. and Caylor H. D.: Histologic Study of the Effect of Ligation of the Thyroid Yessels in Exopisitalizine Gotter Sury Cyme & Old 2011, 2011, 2011.

I oflowing heaton of the thyroid attents there is a marked drop in the basal metabolic rit cause of byperplastic gotter. In sense of forty two ligations there was an crage drop of from 4-60 per cent 1 +30 per cent ten day after the operation.

A hickologic study of the thyroid glund as much to determine the an obtation baques following bytions and to corriet them in the clinical consecutions and to corriet them in the clinical consecution and the control of the control of from 6. It tame headfired asit to dish before thyroidectomy. The portion of the glund any from the braider plots from the glund post control because are taken from the glund next the laptical pole and comprised the glund control of the co

The most constant finding of the rly period in the sections t ken near the lighted view



Fat Large folicies kned with cubolial epithelms and aprint like processes properting late the linear of bilicle, five day after spoint significa-



Fig. High culumnar epithelium known the follows of he abgated pole Compute with Fig.

tendency of the humans of the follicles to be large and filled with colloud. The portions of the gland for the entrance of the lighted vessels are pringly free from these changes and apparently more actin, as shown by the market purculous and

ous hypertrophy (Figs. and.)
The frequency of the involution forms is shown in the table.

Definit involution changes were found in thirty for of fifty cases (ro per cent). N rel itematic bett een the time of lightion and the time of parties they resident of the commentable. I be climical course of the condition it as found that definat

| Type of legation | (acolotica classers | | | | |
|---|---------------------|---------|--------|------------|--|
| | Care | Market | Elight | lackflast: | |
| U polur 8 prike Transter Quadropolar | 2 | 14 8 | | 2 | |

chinical improvement and lowering of the bosal metabolic rate occurred more frequently ben defi mt involution changes were demonstrable in the beated notes

Turnsuceanu Goersch's Test and Radiotherapy in Diseases f the Thyroid (Epreu de Goetsch et radiotherapie dans les affections du corps thy toole) I de adad et d'Hectrel q Ti 5

Although amelioration of the symptoms in exophthalmic gotter is proof of the efficacy of radiotherapy the radiologist has no guide in regard to the t which each treatment should be storped To obtain such a guide the author tried the Goetsch test for hyperthyroidum, described first in 98 viz the mbrutaneous injection of seem f dre nahn of tion. The only modification made by Tarnauceanu was the use of c cm of sol tion mstead of 5 c cm. This test he has applied t all patients who has e come to him for roentgen treat ment for disease of the thyroid. Cases are classified as follows

Cases of true exophthalmic gotter with poss-Goetsch test prior t treatment, which were so benefited by radiotherapy that after the treat ment the Goetsch test was negati a or onl feebly positry

Cases in which, after improvement following radiotherapy, there was a relapse, the Goetach test again becoming positiv
3 Cases undergoing treatment by radiotherapy

in which the Goetsch test was negative 4 Cases not ha mg radiotherapy and with

negative Goetsch test From his finding, in these cases the thor comes

to the following conclusions By the objective and functional disturbances which it provokes the Goetisch test gives information regarding hyperfunction or d afunction of the thy

rord gland It allow the radiologist t mak a selection f patients with diseases of the thyroid and to separat those amenable t radiotherapy from those bo

should be treated by ther methods The Goetach test is rational biological test which indicates to the radiologist. hen the treat

ment should be stopped

4 After the completion of radiotherapy the test makes it possible t keep the patient under observa tion as 1 must be periodically repeated. It will recal even the alightest tendency to relapse so that treatment may be renewed before the symptoma become fully pperent R A Britain

Whit P A. Sorgery of the Thyrold Cland J Ion State U Sec 0 1 mm

Surgery \ ray and radium, in conj nction with rest ad pallativ medication are the ly measure in goiler treatment which h we survived the test of

tune Plummer divides gosters into three types colloid denom tous, and exophthalmse gotter

Colloid gotters re t surgical d should not receive \-ray or radium treatment. They may be prevented by groung sodine and three fourths of them can be reduced by the diministration of sodine or th road products. They are a mmetrically en larged feel soft and gra ula and microscopically show diluted acmy filled with colloid material and hned ith flattened epithelium. The basal metab-olium is ormal. This type of goiter probably neve occurs in persons over 35 years of age but is common during adolescence especially in girls, often ppearing at o following puberty industrilly

duappearing before the ge f 5 The denomatous gotter is surgical condition but should not be operated upon before the patient growth is completed because it seldom becomes toxic during adolescence the thyroid stand is steatly needed t this period, and immature adenomata may be left to day lop later. After growth is complet the adenomata may be removed, whether they re toxic or not, because I the danger that they may become toxic. They occur most commonly in middle life, but may prear during adoles cence becoming prominent only when the colloid material subsides. Adenomata are irregular and

nodula their consistency depends on the degenera process present. Those of the fibrous and calcareous types are bard, while those of the colloid, cy tic nd hemorrhagic types are soft. Microscopic examination show the adenomata t be encapsu lated by normal thyroid tissue. The actini of the deno mata m y be fetal o adult in type and may coutain large quantities I colloid material. Toxic adenomata show no hypertrophy or hyperplana of the acmal epithelium. Toxicity is due to degenerative products. The average age t which toxic symptoms appea is at years. At first the toxicity is mild but

t gradually increases. It exerts accepts e ction on the heart and blood vessels, causing such symptoms as an arregula pulse tracks of tachy cardia, hypertension, and later myocarchal degeneration dysprices and orderns. Tremo moust a d flushed skin, and loss of eight and strength are noted The metabolic rate is increased, but does not reach the beight of the rat in exophthalmic goiter. Exophthalmos is beent. There does not seem t be any rational basis for \ ray or radium treatment After operation the metabolic rate usually becomes normal

Exophthalmic gotter may occur t any period f It has been found in children under to years of age and in persons nearly 60 years old. The symp. toms re tach) cardia, thusbed moust akin tremor and loss of weight and strength, which ppear early

and progress rapidly. Lamphthalmon develops in the first lew months is oper cost of the cases and drung the first 1. years is op per cent. The prilar is raped but regul a stall is operated dependent occurs late in the disease. There are remembers and execurations of the condition. The plane is remmetrically enlarged, feels quite bard and memveropic examination above that the adrial eythelium is hypertrophical but that ery bittle colled is neveral.

The rapid, often explosive des longuent of ophthalmic gotter carnes menace to his adentula rapid degenerative changes in vital occupa The antural course of the disease and each exacer bation hastens desolution or chronic invalulture If there is doubt as to the patient's tolerance of thyroelectomy a preliminary superior polar ligition will give test. If the patient cannot withstand thyrosdectomy a second ligation will modify the cruis so that operation may be performed three or fou months later. In this roldectorary for expenthalmic souter all but the posterior capsule of one lobe the uthmus, and part of the other lobe should be removed. One tixth of a normal lobe will main tain thyroid function. Mynedema following thy roldectomy as rare condition. After surrocal treat ment of exophthalmic guiter including lite and servere cases, over 64 per cent of the patients are free from all evidence of hyperthyroidism, and 3 per cent are markedly improved, making approximat ly 80 per cent of excellent results after si

years.

Those who use the V-ray and radium are in many cases making permatters and extra agent cl um for the treatment of exophthalmic gotter but some of the work merits consideration. However it is not know that herge enough number of patients.

all escaps subsequent exacerbations and come quent visceral damage t offset the known defect

in this method of treatment.
Gestuck pure the N ray pi ce in the treatment of mild cases and in the preparation of sector cases for surgery, but warms th it were new cases to loss of whithle time it his great microse in surgical risk. Jones states that the benefit of N ray treatment aboud the estimated and controlled by busin metabolism tests Illohore point out the dis gers of mixedems from hear or protocomed N ray (volong).

Exprilly good result should be bisused by radium as 1th the roc tgen ray

Martin, C. V. The Blood Supply of the Thyroid Ghind and It Sergical Significance Serg

Open to Obst 123, rary to Attack story of the blood supply of the thyroid ghast as made by layering autopay specimens with barram carmine gelatin mutters I lections lint the supernor or inferor arters on one side invariably forced the mixture out of the corresponding vessel on the same side. In number of

restances the injected material also appeared in the restels of the opposite side

The penadpol arteral treads ramily on the serface of the gland within the trea capacle and mass tomose freshy rid one anothe. The supernor thirtoid artery is very constant in division and datribution generally dividing into three branches. The inferior thyroid ritery drudes into two or norbranches at varying distances from the gland

As a rule the arteries in the substance of the gland. As a rule the arteries in the substance of the gland are accompaned by t vecus, which you it warrows point? These relas follow the course of the arteries closed and at different points empty int the Huger venus that emerge from the sutction of the gland and maximose freel on the surface.

The individual casels are larger in cases of colloid gotter than in cases of exophthalase paters. Because of the vascularity of most exophthalase posters this observation appears to be princiousal, just is explained by the anticipacity of small casels

found in hyperplastic thyrods. Hemorrhage fler operation, which is now an common generally occurs from a few hours I seventy two hours later and usually from an inferior thyrod can or branch of the inferior thyrod artery. Hemorrhage after the thard day is extremely rare and always the result of infection.

The following conclusions are dra a
The thyroid has a very rich arterful and

pous blood supply

2 There is an extensive anistomoris not only
bit een venets of the name lobs, but also bet een
those of opposits lobes

3 If all four thyroid crocks are ligated, the circulation may be reestablished through extraglia

dular assastomosis.

4. The secretory acts to of the thoroni gland is

under pervs control ; After hyston of the superior thyroid artery s po r hyston should be made in order to cut off the venus and I suplicates and the remaining nerve filaments.

6 Ha morninge is best controlled by interrupted mattress sutures placed through the rem sung gland tuesce by legation of all bleeding polists, and by the se of graze packing in the wound if necessary.

7 Directing citis can often be demonstrated by his tag the patient strain or cough before the wound in closed

Sacki, F Tetany After Hemistrumectomy (Tetane meh Hemistrumektome) Med Ali ol

I case is reported in hich in 910 hombirs meetings on the right side as door. Recently the resaming left shall of the goster is behered to hibecome somewhat larger I the past lew rests the patient has frequently soliced in ingling in the sands. I February 0 there as an itack of lettatic convisions positive Chrochet. I and II which lasted for twenty-five minutes. On further examination the Trousseau phenomenon was strong ly positive after one min te and the electrical excitability (Erb s phenomenon) was found mod erately increased. CaCC occurred with a current of

5 ma AnOC with 5 ma AnCC with 5 ma and CaOC with 4 ma (ulnar nerve)

Calcum therapy as extremely effective Hecalcan and so per cent) was given every second day in doses of c cm The tracks cessed after the first week of treatment but occasionally there was shight puresthesis in the hands. In the fourth week the galvanic hyperexcitability reached the following values CaCC with 1 o ma AnCC with s ma AnOC with a me and CaOC with 6 o ms. The Chyostek phenomenon was obtainable only

dunne th ttacks This case show that the possibility fa predisposition t tetany most be taken into consideration even after an apparently successful hemistrumee tomy and that attacks of t tany may occur even after a period of years

SURGERY OF THE CHEST

CHEST WALL AND BREAST

Whittemore W. Tw. Unmont Cases of Empresses. Ser Clu # Am 022, 11, 005

The author presents two cases of double untlat eral empyema cavities. In the first case there was an encapsulated empyema cavity in the anex, and another at the base of the right lung Pus from one ca ity contained pneumococci, while that from the other showed treptococci. In the second case the freoroscopic examination revealed to areas of encapsulated field with gas above the fluid level At operation these cavities were found to be connected by a mnus. The patient developed a staphylococcus septicemia but recovered

BALPE B BETTWAR, M D

Hedblom, C. A. Recent Progress in the Treatment of Chronic Empyema. I let Side If Sec 9 3.

According to the author dealing with the conditions which predispose to or maintain chromicity and the adaptation of the antiseptic solution irrigation to its treatment, constitute the essentials of real progress in the treatment of chronic empyeous The most common causes of chronicity are faulty dramage, dense adhesions due to delayed diagno ses, taberculous infection, bronchial fistula, foreign bother (for example lost dramage material) and certain constitutional conditions apparently asso crated with inability t cope with the infection Actmomycous, pulmonary fibrosis occurring during the collapsed stat of the line, and empyema fol lowing complet collapse are rare causes

In some cases cure m now effected a thout eration, and in many with only mino operation When radical measures are necessary preliminary complete sterilization of the field preventing post operative infection can be accomplished by irriga tion with Dakin or hypochlorit solution. For the best results, the content of free chlotine the active principle in Dakia s solution, should be between 45 and 5 per cent

The author describes the sample technique em ployed t the Mayo Chric, buch usually results is reducing the emptyema cavity to capacity of 50 t co cm If the residual cavity has capaci-

ity of more than oo c.cm decortication should be performed, but in cases of long standing and in those in which the cavity is shallow normit ting only slight expansion of the hing section should be performed and followed by fur ther impration If the cavity has capacity of less than oo can inbresection a perform d and the panetal pleurs is excised f t is ery thick and

Another successful method, used by Keller con sists in preliminary rib resection and irrigation of the cavity with hypochlorite solution until seven successive sterile cultures are obtained from amears from the depths of the cavity the soft timues then being mobilized and sutured in layers

large brouchial fistula is present, open drainage is usually indicated instead if the use of hypochlorite solution by the closed method. The treatment varies according to the type if case

Jepson, W T more of the Breast, J I 5₩ 93 xm 4

The United States mortality statistics for 1930 show 72,93 deaths from cancer of which 6,437 (8 8 per cent) were due to breast carcinoma. Ninety three ere due to cancer of the male breast Of Halated' cases operated on for breast carcinoma, eighty nine (42 4 per cent) were cured. Walth er a statustics from the Paris hospitals give 42 per cent of cures after three years, and Le Dentu s statustics give 47 5 per cent of cures after four years. Of Halsted 210 cases, 5 4 per cent had involve ment of the anilary lymph nodes and 7 4 per cent in al ement of both the anilary and cervical lymph

Women come lat for treatment because of lack of familiarity with the symptoms. The senescent woman may know of tumor in her breast and suspect is character but shrink from operative inter-ference through fear that it will be of no vall because she has known of one or more of the 50 per cent of patients not sa ed by the operation E cry failure to cure by operation prevents one or mor from seeking timely sid. Some women are deterred from seeking operation through fear of the magnitude of the operation or misconception of the function and importance of the breasts

I the uthors opinion the reneveral somains berest should be recarded as notices are no distegment harboring all the disagent of milignary and its removal implies no loss of intenso or an disager greater than that associated with the crosson of militar are of integramment release here. Therefore is a militar area of integramment areas here. Therefore is a bould not be talk of statul a position disageners of military and part in disagrant of military and part in disagrant of an integration.

P pillary int craste fibro adments are cytothermal is more confunctionations for manufactures to small devices after the introopsine and malara in forms are related by through 11 as angle pilochar lively, so strong to the pilochar lively, so strong to the confunction of the pilochar lively and the strong to bloody decharge from the implie. It constructs to bloody decharge from the mpile. It constructs that the pilocharge from the pilocharge of bloody decharge from the more than the construction of the time of the pilocharge of the time of the pilocharge after the age of jet absolute for more occurring after the age of jet absolute for more occurring after the age of jet absolute for more occurring after the age of jet absolute for more occurring after the age of jet absolute for more occurrent after the agent pilocharge for the pilocharg

Chronic mastitis begas a braign condition It

is not a t know whether it predisposes it cancer

Blundrood had t essen of espect in to sen of

chronic ma titu spee found sper cent 105 7901

Is sign discovered previously hanges as nearly so per cost of cares of cystic disease of the level 1 and schummelbasch considered the conditions solly transition tage is acrossom.

The nutbor tates that if the growth is crowd tert benaps if too the left undisturbed or removed locally and sectioned for tod. The complete operation may be done if there is any substantial or many partners of the time of local removal or later if such evidence is found, the found of the logs of the logs

operation may be done if there is any identities or mal grancy at the time of local removal or later if such evulence is found the tudy of the tosses if the growth is a borderine condition the patient may recent the locacit of the donbit the growth being treated as if it were being. The thordoornot use the microscope as an aid 1 the time of operation

operation

A cancerous breast bould be removed completely
with the amiliary lymph nodes and the the pertoral
muscles of they or their sheaths show a understoose
of in oil ement. A ray and radium treatment may
be added. The improvement in result pushion the
radical operation.

The hope of the f turn less in the prevention or the carly recognition of the growth. The artifice the leves that the time may come when there did to serious consideration of the removal of all useless itself the sheet they have such dispersion of the sense out to the sense out

Strabell, C. B. Remarkable Fraedom from Local Recurrence Pollowing Chemical Removal of an Advanced Cancerous Breast. N. 1 or 5 late

J. M. 933, 334, 27

Beca se f the fact that skin cracers, lockeling redert skeer prockle and squanous ell epstlehe-

mater accer peaker and sylumous or epiconomials, keralised growth, pigmented arts, etc. high ha not peretrated the deep fason, may be removed without return, the thor concludes that the development of an enlarged technique would

large larger master under control.

Chemical removal counts; us the radical and more or less rated destruction and renoval of malignant; tuestes by mean of causic agent.

more or less rapid destruction and reversal of malignant tissues by mean of caustic area; principally potament by droude and sinc chloride it is must be taken not to destroy bony structures or I penetrate the plental on its

Postantem hydroxide reguld decly desting and better the postantem of the p

The second stage of gross removal in breast cree is accomplished in his me chloride but notice gradual and paraless sectores of all tensor. The blood and in paraless sectores of all tensor. The treese students of sector toot, becoming partly what out them on their muto dark grays and black. The treese students devote toot, becoming partly what out the contract of the depth of the contract of

to a siter simple picketison. The deep leases in a be pared way from d a to did pold leaving re application of the inner outil ground level in reached. The first plague is a little to proceed out process accompanied and furthered by an interee inflammatory reaction of the adjusted by an interee inflammatory reaction of the adjusted by an interest of the first press. I contact of the rise set of the first press of the first pres

Therefork skin girst () prevent continuation. The other has trented by the method narry own prevails cucers of the breast. In forty case personal, protest there as openint methods of historithus The crup length of the other hands of historithus The crup length of its plants are still alrease and free from recurrence there of these have here more than several years.

after the operation and the other three, five and one half years, four years and seven months and four and one half years respectively. In 75 per cent of the cases there was no recurrence t the time of death. Internal metastance were present in all cases as evidenced by the auditory clayscular and mechasimal tymin glands.

The author concludes that early raised removal, before the satillary glands are unvoked should give permanent cur that the earber the chemical treatment, the simpler more expeditions, and more effects it is il be and that when it is applied a saranced broken down on discons the method is superior it every their method hitherto employed energiant both pallows having C. Bracker M.D.

Lee, B. J. Results and Technique in the Treatment of Carcinoma of the Breast by Radiation. Am J. Resultsel. 1021. 62.

The uthor has had the opportunity to observe a large number of primary operable and moperable and recurrent carconomate of the breast, some of which were treated by operation plus urradiation and others by irradiation alone. All of the cases have been closely followed:

The technique used in the application of both radium and the roeptgen rays has been arred from time t time The roentgen ray was used routinely for pre-operative treatment before a radical operation, one complet cycle of about four treatments being given over the entire breast and the arillary and suprach scalar regions. Following operation, after the wound had completely healed (usually in or three weeks) tw complete roentgen-ray cycles covering the entire breast and areas of lymphane drainings were usually given. Breast car. conomate hav been treated with radium by one of five methods or a combination of them, namely pack, tray dental mold the insertion of here emanation tubes and the meerison of platinum Seedles containing radium emanation

With regard to the results obtained in cases of primary operable carrinomata treated by pre-operator roentgen uradiation, radical removal, and postoperative roentgen therapy as described no definite information is given but the belief is expressed that such treatment is of value. The coult obtained in primary inoperable cases ppears to be prolongation of lif In recurrent inoperable carcinoma of the breast treatment by radiation offers practically the only hope of checking the cheese or effecting a cure. In the treatment of these cases the roentgen ray has been employed most frequently and the radium pack or bare ra dram tubes have been used in well localized, sharply defined recurrent masses. In comparing a sense of recurrent cases covering a period of three years with those of another her lork hospital in which no radiation was used after operation or for recurrence it was found that the period of life following recur reace was three times as long when urradiation was

used as when it was not employed. Without doubt the treatment of recurrent cases by radiation gives a marked prolongation of his. The following conclusions are drawn.

All in all, the outlook in the treatment of extinents of the breast by radiation on most encourage are not not properly of the property of most part of the property of most part of the property administrated is the most effective and in the care of carenoons of the breast surpextly treated, and in every surpend clause pre-operative and necessary surpend pre-operative and necessary s

For primary moperable and recurrent cases the best method t priment in external radiation with the roeningen ray with fifteen-munute exposure a toun spark gap as moral datance, 4 mm of alumnum filtration, and 4 ms. f current followed by the implantation in the growth of bare radium tubes, complete done being given at the first strong.

Association of the control o

TRACHEA AND LUNGS

Lahrnbecher A. The Operation for Traumatic Hernia of the Lung (Zur Operation der traumainchen Lungruhernse) Zestrafil f Chr. o

In the case of man y years of age who was stabled, struter of the long after resection of a peer of the eighth nb 5 cm long was necessary to arrest the hermorrhage Sra months later pulmon ary herma as large as a child' head developed at this size. At operation, the lung was found adher ent to the opening in the thorax but not in the her mail size, and was easily sensarited.

T close the hermal rung a matteres sutters was that spiked at the base of the hermal sax and the latter them formed into a pad by continuous pursuing statuse and fixed it is sate of the ture Percostant daps with long broad pedicles were then made from both of the dosumer has, referred up ward and downward, respectively—a dunted by sutterns. A large fiver transplanted dap of fusion to make the significance of the same discussions and the massless and also were then significance of the second followed. There mooths after the operation the herma was completely closed off and the patient was five from resupposes.

ipiomi Von Tarredone (Z)

Cutter E. C. The Etiology of Postoperative Pul manager Complications. Surg Clin Y Am 93 1, 935

Cetter ducumes the various theories regarding postoperativ pulmonary complexiones and points out that such sequels follow operations in 1 o maximum faids () the shoures and () the mostle, face and next. Their mendence been no mostle, face and next. Their mendence been no mostle, face and next. Their mendence been and obtained operations per complexities of the second operations pollomearing operations the east of local ameribeau quits as frequently as they follow shalation anasystems in operations.

about the face and eck it would seem that there are fewer complications following the use of local assesthesia but this is due to the lact that local amesthesi is not used in infected cases. The more bidity following gus-on gen angesthesis is fully as great as that following other amouthous

Cutler believes the term ether pneumonia" is erroncods as aspiration plays little if any part in postoperative polynogary complication attention t the fact that such complications occur with equal frequency in rich and poor in persons with perfect teeth, and in those life carnous teeth. and are not eliminated by the expert angathetist He believes that the majority of postorerative pulmonary complications are due to embolium resulting from condition for which the anesthetist cannot be held responsible

dir comment 1 min#

Heuer G.J. ad MacCreedy P.M. Lung Abscess. AND SWE 9 3 1. 337

The authors summarise the Johns Hopkins Hospital records of lung beess Of sixty to cases fourteen were not diagnosed during life. In forty three cases operated upon there ere thirteen deaths an overall a mortals of to per cent. The total mortably as 44 per cent. Two patients treated by labertomy died. The authors stat that undoubtedly it the present time surgery gives good results only in cases of single well-circumscribed abscesses in which the primary condition responsible for their dev lopment has disappeared. Twenty one such cases ore treated by draining pareleal twenty four cases and artificial paramothers in a cases. There was one death from spreading gangrene of the hang. The late result in the cases followed were ery saturactors. Long tanding chronic lung becrees a th thick alls of fibrous trame are often not cured by drainage operations

I there one cases the abscesses followed pure monia, so sixteen they developed after an operation (four were toxistlectomics) in seven cases they were due t an acute bdomin I infection, and in the remaining eight they or of amous origins RESIDEND

Lockwood, A. L. Lung Abecess 4rd Surg #

L 1 4 Contrary to the opinion of the early inters that abeces of the lung is consum acquel of lobar

portmonia, survey of the cases reported during he last cent ry medicates that t is rare By lowering the resistance in the lung times itself lober presented branchoperentonia and influengal pocumenta favor the development of lung

becen following pyogenic infection Lung abstess occurs most often between the ages of \$5 and 40 years. It is three times as common in males as in females, and occurs to and one half timers as often on the right side as on the left and about 1 kee as often in the lower lobe as in the upper I three of every four cases it is peripheral and involves the plears, and in one of four there are multiple abscenes

Namerous lung abscesses have been caused by neglect or informanagement on the part of nose a 1 throat surgrous, eral surgroom and dentata Such misman gement or neglect is manufested in the selection of the angesthetic in not keeping the patient's head low and in not taking sufficient precaution t prevent the inhalation of foreign matter buch sequel may be prevented by employing local anasthetic abenever possible in surrery of the mouth, now and throat, and in teeth extrac tion by keeping the head low during such operations. if a general anarthetic is employed, until the patient has thoroughly akened by taking special care t regreat the accomplation of blood and sages is the throat and by obtaining better large-tast or such work

The distribute denously on the history, the amount nd nature of the sputum, and the findings of the ruenteen ray and physical examinations

I tady of the results in these cases he led the author 1 onclude that surgers should not be employed as soon as the drignosts has been made unless it is definitely indicated. In many series of cases the mortality has been unnecessarily high Inst ad of operation, thorough medical treatment th posteral rest and drainage should be sustinuted Il hen this falls, pneumothorax should be produced in selected cases, surgery being reserved for those which do not respond to the to other methods The explorators needle should not be employed

When surrery is decided on trura entebral and local næsthesia, with mas nel exygen if perematy should be used, and in the majority of cases more deliberate extensi and logical operation should he planned than resection of the chest wall over the suppuration and cautery or blant puncture of the Incom

If the national condition is such that extensi operation only proof too pract risk, re-ection blunt punct re and exploration of the abecess with the farger should be the lacut of surposal fater ferrore.

The surgeon, physician, and roent genologist should be ricedy associated to making the diagnoss and in R C Arm ND the care of these cares

\|erer \\ The Establishment of Temperary # Permanent Pulmonary Lip Fistal in the Lon-servative Treatment of Advanced Branchiectatic Lung Abscess A last M J & Mel Ere

I the operation described the largest carrier is opened through the chest all and free drawage

and entilation of the cavity are established. The ventilation of the cavity in great measure stop-the fool smelling speram. The oxygen powersts the growth of the sens amerobic bacteria bick acttle in these ca ties and buck may be responsible for the odor of the spetum. After speration the patient health is greatly improved

So far the author has not had the opportunity t close the established fatular. In to of his cases dosure has occurred spontaneously and the condition ma be regarded as completely ou ed. As long as the fistula remains patent the patient must observ certain precautions, one of these being to

old bathing or submerging the fistula in water RAIM B BETTS. V. M D Lemon, W S The Interrelationship and End

Results of Chronic Suppurative Discusses of the Lung. Ant Surg 9 3, 1, 343

The uthor classifies the end results facut and chronic dresse of the lungs as follows () resolution to normal conditions, (2) fibrors, and (3) nectors Empyema, brouchiectasus, and abacese constitute the supports type of pulmonary disease. Acut pulmonary diseases which proceed into chronic disease are classified into seven groups

Group : Acute fulmmating inflammations, which ms) be caused by unitating gases. These apadly fuse with later errors unless death cusies

Group 3 Yeat streptococcal brouchopness monus common during the epidemic of influenza Group 3 Less cute, but almost as often fatal, perudo lobar poeumonia, also of streptococcal or

perodo-streptococcal origin Croup 4 Preumonia progressing t the forma tion of free or interlobar encysted empyema. I this group are the greatest number I cases of long

standing conditions Group c Abserses of the unifocular or multilocals type or cute broa hiectars. Included in

this group are abscesses of embolic origin and the aspiration type of bronchiectatic buces Group 6 Residual inflammation which develops int chronic non t berculous infection f the hings

or into frank bronchiectasis Group 7 A resolving condition, gridually revert ing 1 normal

There are fix reasons for the character noted in

The treatment of t betreukous empyema by open methods or methods designed for the treat ment of non tuberculous forms

The fact that the same trell may lead from infected toute may be thickened walls and may remain ope indefin tely

3 The presence of an infected rib t the base of

the sums, and osteom his 4 Insufficient dramage

Improper position of the surgical ound As all purplent effusions tend t form adhesions nd air and transpidates do not pockets re formed the picura is thickened and the lung does not expand properly t fill the pleural space. Bronchiel fistule

or multiple fietule are obvious causes of chronicity Fibrous is one of the end results of infection and may be of varying degree () fibroses f the pleura associated with fibrosis within the bang () fibrosis extending from the hillum and (3) fibrosis within the lang nd proceeding throughout the interlobular

sents, or round the broachs and essels or in the ah cola walls Whether I is tuberculous or non tuberculous, fibrous is one of the gencies which cause changes in the position of the medias trnal structures the most obvious of which are the heart and traches

If there is fibrous with persistent rough bro chiectasis must al 36 be reckoned with first because the strength giving a li of the bronchus. which often has been weakened in the original disease of the lung gives w) under the dded pressure due to cough, and second because in the fibrou 1 ng the damaged broughns has lost its normal clastic support and dilates when the interbronchril nece sure a raned (McPhedran) Thus realt a more apt t f llow when the pleura anchors the l ng to the chest wall, condition present in the majority of Lemon cases of broachiectasis T other f ctor may enter into b onchectasis via traction on the brought from impuratory movements of the thorax and an increase of endobtopchial pressure associated with effort in coughing

Bronchiectasis following influenza does not des elonfor a months or year aft r the acute illness

Norms and Landia state that pulmonary fibrous and bronchiectases to due to the same cause. The bronchs were dilated in about 80 per cent of the

cases of matern. fibrosis Lemon emphasizes the importance of recognizing the relationship between buces and broachiertasis because broachiectasis may develop during the heal ing of an becese and as patients with bronchi ectages to prome t infection abscess or b onchopacumonia may develop

Amylordosis or tuberculous meninerius must be taken int consideration in operative procedure caming collapse of the lung in cases of unilateral tuberculose, particularly if the disease has been of long duratio Lemon reports a case t illustrate the difficulty in the diagnoss in long standing chronic pulmonary suppuration, and the benefit which can be blamed by surpoal intervention The patient had had infinenza three years previously during time when the scarcity of physicians in his outlying country did not permit him to he e caref I ttention. The history and examination indicated that influenza complicated by broachopneumonia * as followed by empyema. The empyema cavity had formed fistule with the broaches, and as a result there was continuous expectoration of large amounts of purulent material. The patient was a wheel chair inv hd with chest deformity and an extreme grade of arthritis and pulmonary osteo-arthropathy

This case illustrates the principle that I patients continue ill when their primary infection should be over it must be assumed that they are suffering from suppurate disease which should be attacked at once. The peculiar deformation of the extremation, arying from all degrees of simple clubbing or hippocratic deformity t true pulmonary outcoarthropathy are one of the interesting crompan ments of supportett disease of the hing Abserts

of the lung resulting from pneumonia represents the patient's failure to react effectively

A subgroup of cases of suppuration of the hine are classified as non-tuberculous infections, these have been studied recently by Conner in the Section. on Duseasca of the Chest in the May Chnic. The conclusions draw are as follows

Non tuberculous infection of the lung as nonspecific disease but deserves a name as separate discess entity

The essential features are cough, marked chronicity execurbations, little or no favor and a few other constitutional symptoms, usually purulent expectoration, lack of progression, and locatio of

the lesson almost always in the bases 3 The principal physical sign is most rides 4 The charmons is based mamly on the chronicity of the cough the shight effect on the general

health, the location of the signs in the bases and the persettent absence of the bacult of tuberculous 5 In the differential diagrams, chronic brouchs.

tis, tuberculosis, frank bronchiectasis, and bronchopneumonis must be considered 6 The prognous must be guarded in the cases

of dults The treatment is mainly postural treatment

Ringer P H Reflections upon Nine and One-Half Years Experience with Artificial Procumo-thorix N Yesh II I W. Med Rec. 923, crys,

Artificial passimothorax is non-being used in saider cases than formerly and in many hopeless cases it is employed as a purely palhative measure. Cases of apacal involvement have a better prognous than those in which the base of the lung is involved because in the former partial collapse is more often mosphie. Cases of profuse hemorrhage give at times the most bulliant results

Atmospheric air is now used exclusively and thus became customary to refill t shorter intervals and th less massive doses. The use of high pressure to

tear adhesions is dangerous Accidents incident to artificial paramotherax are becoming less common. It has been deflutely estab baked that partial collapse is productive of good rustifiable results Bilateral compression is not procedure. The most frequent complication is fluid Fluid is dangerous because 1 favors gradual obliteration of the pleural cavity. Fluid was encountered in about as per cent of the thor cases. The appear ance of activity or an increase of activity in the im collegaed lung as not an infrequent complication When total collapse is possible realling should be continued for tw years Partial collapse should be continued indefinitely. When collapse has been done for kessorrhege and the uncollapsed lung at affected, collapse should be maintened only long enough to plug the bleeding point. Although good results may come from artificial pocumotherax m cases of long abovess, surgical treatment is to be preferred

To epitomize briefly the conclusions reached as a result of nine and one-half years experience with artificial pneumotherax, it can be said that the method is distinctly valuable Immediate results are often surprisingly brilliant, the percentage of really permanent arrests desproactingly small Of eighty-five patients treated by at least partial pocumothorax only 16 per cent are well and only 3 per cent owe their recovery to the artificial poeumothorax Thirty per cent have been besented

RAINE B BETTER MED

Davies, H. M. Surtical Treatment in Case of

Pulmonary Tuberculosis. Det H J 021, 131 In cases of pulmousry tuberculous collapse of the lung offers a chance of improvement after medical treatment has failed. When the long is placed at rest, its renatance to tubercle becall is increased and secondary changes, such as broa-chiecters, which is the later stages of tuberculous may came the most aggravating symptoms, are sometimes prevented. Surgical collapse is usually indicated only when the lemon is unilateral, but is few instances the withor produced an artificial paramothorax in the presence of bilateral lesson. compressing first one lung, then allowing its more plet re-expansion, and then compressing the other

hung Adhesions form the chief betacle to soccessful collapse by artificial posumothorax dealf with by various methods, depending on their size, postson, etc. Occasionally it may be possible to stretch thin dheson by the prolonged use of legs mirathoracic pressure. Occasionally also it may be possible t tear an adhesion by high pressure, but this is framplit with the danger of tearing the long If the adhenous are very thin and string like and can be seen readily with the fluoroscope they may be di ided under 1 ray guidance by means of a tenotoms stabbed through the chest wall. Jacobsets. method has a limited application

For dense adhesons holding the upper lobs, extrapleural aperolyses may be performed. Parafin may be employed to maintai the collarse, but

transplanted fat flap is much better

The leng may be collapsed also by collapses the chest wall. The a thor prefers no resection with removal of practically the entire nb to nb metalsation in which the anterior and posterior sections of the rib are removed and the ribs are allowed to drop downward or inward

RALPS & BETTSAN M.D.

Schloepfer E. Fibracis of the Lamg Following Lifetion of the Pulmanery Arriery Combines with Phrysicotamy and Parital Octavion of the Palanoustry Veins. Arch Surg. 1921, vs. 158

The author semmarizes the surgical methods t present under compderation for the curs of charact refections disease of the lung, particularly tubereslors Two methods now idely tend in case of umisteral pulmonary tuberculous are artificial preomotherax and extrapleural thoracoplasty. These

methods act indirectly

Direct influence on the physiological function of the lung is brought about by ligation of the pulmonary artery of one lung rone lobe. The bronchial arteries furnish a sufficient supply of blood. This procedure may be reinforced by paralyzing the disphragm or cutting the intercostal nerves. The chronic stass which results causes replacement of the lung tasue by fibrous tassue

Phrescotomy performed at the same time as the hgation is ery helpful. The paralyzed disphragm and the movable mediastinum tend to follow the retracting lung. On the theory that tuberculous occurs less often in persons with organic heart leasons, partial occlusion of the pulmonary veins is suggested as a further aid. A third method of bringing the lung to functional rest consists in blocking the air passages by blocking the main bronchus with a DIECE OF FRACIA R C WEER, MD

HEART AND VANCULAR SYSTEM

Roberts, J. B. The Value of Pericardiotomy in Deag. note and Treatment. Arch Surg 9 4, vi,

In obscure conditions the diamous may be estabhished occasionally and permanent rehef given with negligible risk by dipital exploration of the heart sac The earnest American operation for suturing carduc wound was performed by Stewart. Other investigators have draw attention to chinical and

experimental work in cardia surgery

The author has had considerable experience in this line of work. The case which prompted the preparation of this article was that of a boy 736 years of ge whose condition had been disgnosed as perscarditis with effusion. The hings were negative The heart showed an increased ares of duliness extending to the nipple line on the right side and beyond the apple line on the left aide. The heart sounds ere fairly normal, but an evident to-andfro marsour was transmitted to the left axilla. The child was admitted t the hospital in July and was under treatment until the following September hen roentgenogram was made. H was then

sent to the laboratory with clinical diagnosis of percardita with effusion and left nicural effusion His temperature record for September arred from normal t oo degrees F with occasional rises to about degrees I and occasional decreases to normal. The latter part of September it was

decided to tap the pericardium

Thorough examination revealed rather loud cardiac sounds with duliness in the precordial region, but the patient was not especially cyanotic, and as he lay in bed his pulse was rather strong Another physician and the author discussed the fact that the clinical examination did not give the impression that the patient was suffering from a large percentual effusion An aspirating needle was insorted between the

amphoed cartilege and the seventh mb but no fluid

was obtained. An incisson was then made down through the left fifth interspace, and the pleura and pencardrum were exposed. When the needle was again inserted through the exposed perscardium no fluid except blood was obtained. The pericardium was opened by a small momon and the index finger inserted into the perkurdial sac. No fluid was obtained but the heart was found to be very large Under careful treatment the patient improved. This improvement was due evidently to the change in treatment resulting from the correction of the diag poss and perhaps to relief f pressure on the enlarged heart by the incusion in the heart sac which must have enclosed the large heart tightly

Valuable additional history was obtained fter the operation. The child had been taken acutely ill in June, with high fever general depression and malane. He was in bed one week, but then got up and felt better. In July he had an attack of pain in the upper abdomen which was diagnosed as gostrointestinal colic. His breathing had been rapid. He had never complained of dyspuces and cardiac pain until then His tonsils had always been enlarged To months after this attack he was operated on for the removal of hypertrophied tonials and adenoids inder ether anisithesia. His general bealth then improved markedly from week t week

This case and other expenences in pencardial surgery have led the author to the conclusion that careful investigation by percussion, anscultation and roentgenographic study should always be made before resort is had to tapping or other surgical attack. Laboratory research has apparently proved the possibility of entering even the hollow heart and remedying defects of its valvular pparatus

Diagnostic pericardiotomy should be done be tween the fourth and fifth or the fifth and math nbs In the fourth space, the middle of the museon should be at point little to the right of and below the nupple close t but below the upper edge of the fifth nb An elliptical flap with its conventy down ward, should be turned so as to expose the entire width f the fourth interspace

If the percurdium is believed t contain pus. small puncture with the veterinary hypodermic syr ings may be made before the pericardium is opened If pus is found new incurson may be mad nearer the sternum or dramage may be provided in that re gion t say the pleural cavity from contamination

Whenever it is necessary to expose the heart for a wound caused by foreign body somewhat triangular octeoplastic hap should be turned up by dividing the fourth and fifth cartilages, the inter-costal muscles being used as binge, or by the trap door suggested by Delorme

GEORGE E BETTAN M D

Crile, D W Restrictation Intracardiac Injections. Surg Gyase & Oles 922, EEET 77

The author reports the cases of five patients with constion of the heart beat who were revived by the use of intravenous or intracardiac injections of

frequency

dreada. The of the five mode as unexentled recovery I all of these cases often enteloded resuscitation were tred without secrets. The successful nethed consists in the mjection mote the heart of to teem of adrenaline (eco) by means of a long spanal puncture needle. Heart shoot must be separated to prove entrainer mits the heart cavity. Speed is important and the heart miss be managed. The same results may be obtained by interneous injections. The procedure obtained by interneous injections. The procedure citation memories it is united ted only after of durant measures at the united ted only after of durant measures have failed.

Makern H House M D

PHARYNY AND CHAOPHAGUR

Weiss, E. Caugenital Atresis of the (Esophagus, with (Leophagotraches) Fistule Report of Three Causs. J 4st M Att 9 5, http, ro

Plan collected 36 verified cases up to 9.7 Since that time fifteen cases have been reported. Hence the anomaly designed ttention because of in

In the cases reported since 9,7 and masters fit a glocase collected by Plan, gastrootsony proved futile. Death from starvasion is certain a thoust operation, and of operations is performed death recognitions of the starvasion is certain as thoust cooperamona, the last probably does to regurgate the procession of the start probably does not regurgate the starvasion plane to the constitution of plane to the constitution of the starvasion has been treed once a whose use cases. Robiter treated two cases by gustrootsopy plane course of the storest complexity of the starvasion of the sta

occurred within twenty four.
The malformation is practically always the same.
The upper end of the encoplangue is usually diluted and ends in a bland sac at about the le el of the tracheal bufurcation. The lower end opens into the tracheal ter near the bufurcation. Other malformations such as attenta in it, and yo haveousted with this

consisten
The diagnoss is made readily. The child regurp title almost transductely after taking food. Suffices three attacks traded by choining and cranoms follow attempts to swallow. The stometh indiates with each insparation and the beath sounds over the abdomen are more utilide than normal. The partial of a catheter into the compliages under the flacoratogo and enophagoscopy make the diagnosis certain.

The uthor reports three cases, those selections clancilly and austonically in which gastrostemy was performed. Facility through the gastrostemy was performed. Facility through the gastrostem opening caused chooling attack. The first chief deed of broadcopenimous seleven day. Her the opens too the account on the performance of the company of the performance and the through the company in the company in the performance of the company in the performance of the company in the performance of the performance

WALTER C BURER M D

Flocher, H. Surgical Treatment of the Ecophages Arch Surg 925, vt. 256

I is de-clopment the singery of the co-plane, as passed through several distinct stage, vs. () the estrapheumid dorsal approach with timept to reconstruct the immen by sature () the transfer of the stage of the saturation of the

domen and the neck (5) extraplemal removal by combused method from the biomen or seck or from the abdomen, neck, and back, th trasposition of the tomach rat the posterior mediant

num.

Fatcher adouts that I present the results of sorgery of the escophages are not good, only in cases of extended and the earliest portion have principle recovered from the operation and have he of the believes the time is not far distant, however when each time of the merchant.

conditions of the enophages now regarded as lopeless may be successfully ttacked.

The article is an excellent summary of the divisiorment of enophages surgery and is supplemented.

by an excellent bibliography
Raise B B rrs. VID.

MISCRILATIONS

Moons, E. A Dermond Cyst. I the Anterior Veriestinum. (Lysos dermonde de mediantin autoren). Arch (smo-leiter de che. . xxv 000

pormal parturation the Three mouths after patient hose case is reported complained of paraful area on the anterior surface of the right chest wall yest above the pper surface of the liver The pain first occurred in attacks lasting to three d ye but later became constant. Coughing expectoration, and fever are not present at any time Treatment th tracture of source there pentic light and exploratory punctures crused to improvement. The thor first saw the patient there years after the caset of the condition, when she had lost considerable eight, pressed eachetic. and complained of pain chiefly in the right interior anillary line more dately above the upper border of the liver Respiration was short and difficult but t no tame as there as moreuse in temperature

Dullices as present or the right cheef wall autenority as large at the second rhe in the numerary lane, and posternority to the scapela. There was complete benefit of the scapela of the results of the concerd the state. Exploratory posterures yachled a time colored the which it there are stated on a the right not of the thorax as high as the second in both extractions of the thorax as high as the second in both extractions of the thorax as high as the second in both extracting the left by send the

heart shadow. In an ex mination with pneumoperitoneum the gas was demonstrated it pars between the apper urface of the lier and the under surface if the disphragm. I diagnosis of immor of the medit tunum with made

At operation the third, fourth fifth, and until nivon the right side were exceed A tige 50 to containing a large amount of digenerated merel and a thick from such did not made a free from the recording of the service of the service of the service of the first of th

Lillenthal, IL. Posterler Mediasthaotomy (red Sire o 1 1, 71

Libenthal describes his technique f r extrapleural posterior mediastinotomy and reports case ireated in this manner. The case was that of a man aged at care who for t months had suffered noun in the dorul remon accommanded by cough and expectoration. A diagnosis of tumor of the mediastinum continuous with the lung as made. The specimen removed toperation revealed interatural inflam matory process but no evidence of neoplasm. After the operation the local vimitions improved and the ound besied in few week but the national developed a left hemiplegia and delurum and died Autopey us not permutted It is probable that death was doe t metastatic cerebral becess

The protople of the author technique is retrict too of the disked end of the has at right angles to that long axis, the crient of the visible protein being determined only by the length of the world. The price of the first of the length of the world. The price of the length of the world have been as a protein the length of the length of

Los posteros medivatuotomy, is performed by making an mention on the minb in beginning 8 in from the spice. Section is along the thirty the edge of the long parall mention at dient of the mary parall mention is dient to the mary parallel in the pace for five interpretar mention. The minh in in recrected subprenorately beginning got a teroso t the angle and proceeding internally as fir as the wound all permit. The finger is then mented along by the ene the posterior marriered part of the in and 1 personateum and this membrance is pecked forward in the pietra until the eighth in the rested. When the righth in this street.

irred from the pleurs it is divided and retracted and the procedure is continued upward until infector space has been guized. The contents of the benefits that me than exposed. It is sworthmen dishrult is prospute the croople guize but it may be rendered electry visable by pass ga bought with a small electric lamp in its end which abuses through guize one must guard aguiset, ago who, he yellow the process of the process of the compliance of the process of the crooping as may lipidized of per cent course. The crooping has the process of the process of the crooping in a small pledget of 5 per cent course. The crooping is the process of the proce

The high operation is curried out in much the same manner but the second or the inth rise in those first reserved, and the fifth fourth and third ribs re divided posternor. The best pyrouch is from the left side.

R. C. Niers, M. D.

Archibald E. W. LeWald L. T., Torek, F. J. and Others Surgery of the Mediant um, locheding the Heart and Geophagus. Abstract of Discession. Arch Serg. 0.3. %

Against at tel that his sperience with the posterior extrathoracoplastic operation in pail monary tuberculous numbered fifteen cases with practical cures in from §1 15 per cent. He reported

case of carmoons of the criophagus past abov. the rid of the orts. A gastrostomy was performed and three weeks later be operated for removal of the easter II went in from the right side removing the such and event hinds. The pletury was difficult a separate. The operation was performed under positive pressure. De pletura was form in several places and reparated. The adherent tumor was canned. A mediantimate developed und the patient may be a serious developed and the patient monthool under the serious developed the serious procedure but stated that it is often much more difficult than Likesthal led on it expect.

LEVALD mentioned three cases of what were probably demoids of the chest. One evacuated spontaneously through the broach and (raches life referred also to case of rapidly growing lymphosarroms of the mediatinum II had nader observation a child and woman whose stomachs are much thoracce cavity.

Tours in discussing caranoma of the enophia gas, and that improvement in the results depends upon improvement in the teachingue and early reconition of the condition. The states of diagnosis is that of pipendicits thirty for years ago. The compleageous should be used more frequently and the condition recognized while it is still confined it the condition recognized while it is still confined it that the condition recognized while it is diagnosed early the skellbood of unfection from its diagnosed early the skellbood of unfection from its diagnosed early the skellbood of unfection from its diagnosed early the skellbood of the proper of the earling of the earling learn route is to be propered.

GRAMAN mentioned the case of a moribund man the large mechastinal lymphosarrom completely surrounding the traches and beart. A emergency decompression was trempted by longitudinal split ing of the sterium. The pritient died in batt an bour Graham mentioned also case of thorsele stomach in which diagnosis of empyema following pneumonia was made, thoracotomy was performed, and the stomach opened and drained. The opera tion left a discharging sinus through the chest wall Graham called attention also to the method devel oped experimentally in his laboratory in which double cuff of fascia lata is placed about the portion of the cesophisms to be resected to represents and two cels later the monhasts and the mner laver of fascia lata are removed tube being left for regeneration. The procedure gave fairly good results

m dom SCHLARPING suggested that preliminary easing tomy or refenoutemy combined with X ray and radium treatment might be advisable before overat

and on carcinom of the teachbasts

MILLER spoke frome experimental work on does to which the stomach was drawn into the thorax to replace the major portion of the thoracic enough gus. He stated that the lower portion of the one phagus is supplied ith strong layer of sub

YATES reported a diseaser following meditational decompression. He as in favor of \-rev treatment

rather than decompression Harpaton mentioned amila expensace

GREET suggested the muccion of aircronat into the pleural cality to cause a sterile chemical inflammation and dhenoa between the parietal and visceral pleure status that this might prevent amore nicutitu as completion of resection of

the montages for currenoms Maxas mentioned care of mediantical lymphosarcoma in which he made a complete longitudual division of the sternum as a decompression The patient died four hours later. The idea of decompression as applied to intratheracic neoplasms has no analogy in the principle of decom pression for the rebel I intracranial tension Morphine and other succedance give greater rebef

Fractic stated that he believed he would continue to one the transpleural poroach for craophagual turnors

Let reve was advised against operating after radium treatment in cancer of the oxophagus on accordat of the dense adhesions. He stated that for correct understanding of the relative advantages f surpcal procedures a must operate on such dogs and healthy men. H. reported successful mediantinal decompression in the case of patient with large R C Wen MD retrosternal goster

Peror J IL Immobility of the Disphragm, with Report of Cases of Bilateral Isomobility # 1 at 1 / 6 1/ 2 Rec 1923, CEPH, 75

This article is based on 45 cases in which there had been pleuray a th effusion or empyema interval between superation or evacuation and fi oroscoci examination s about a year and a half The cases are classified as follos () empyrms in the child, (s) empyems in the adult (s) plearers th effusion. (a) plearay with effusion and clusted not monery preumona, and (c) memoribors and

From the complete series t as found that the disphragm remains unimpaired in one of an one the same proportion by a restricted comments motion, and in two-thirds of the cases all motion on

one side is lost Firstion of the displangm is not as common is empy emain the child as in the adult. The tendency to more raped recovery is apparent. Immobility of the disphragm occurs in 50 per cent of the cases. In complete evacuation, updacovered pockets, press. ture closure of the opening for draining and a sufficient attention t expansion of the collected

lung are the causes of injury to the heart ad du nhraent

In the adult, empyema is a far more serious con dition. Of fifty cases barryed only eacht showed no ramobility or injury to the displication. From carditis, adhenous het een the nerkurdnan and pleurs, and twesting of the heart are much more common than is generally behaved and explain symptoms and complaints frequently ancibed to ther camer

Purclent necessitis also occurs but a detected

only if an autoney is performed.

Loss of function of the affected leaflet of the da phragm is not so common in plearary with effusion as in emprema I shout half the cases some motion of the draphrages remains. The observations in cases of pleurny with effusion and pulmonary tuberculous ere ery similar to those made in nacomplicated

plearney with effusion th effects the ultimetric In pneumothorax salts are similar to those of pleursy with effects

The author calls ttention to the danger of empoling

the displican in artificial procumothors. Impairment of the movement of the disphrago may extend to the ade opposite that affected by the pleurary or empyears. There was no compre-

satory morreuse in motion of the manfected side Symptoms are relatively uncommon, but there may be pulpitation impairment of breathing orunalpa and inability to work as before

Six cases of belateral immobility has come under observation All ers cases of chronic tuberculous and all of the patients had had plours. The prin-cipal complems was abortness of breath. The N rs. examination aboved flattening of the dome of the dusphragm the perscardual attachment forming the pex of an inverted V. The heart shadow was long and narrow its original shape being enterty lost

All of the patients steadily declined and died in short time. Only one lived for two years. To of the cases of balateral immobility ere cases in which artificial presmotherax as ensolosed for treat

A syndrome noted to this condition and sever observed in any other the wihor calls phreso carries incompetency The findings male tinctiv dyspoons, a decrease the cardiac area faintness or absence of the apex heat, faintness of the heart sounds, very low blood pressure, anemia, gradual loss i fiesh and strength, costal breathing, absence of Litten s sign, and history of plaurisy and rulmocary tuberculous

I such cases one should look for X ray evidence

of balastral mmobility of the displayage. There is diversity of opinion as to the cause of displayageastic immobility. It has been secribed to paralyses of the phrasen near, to the pressure of find in the plearal cavity to adhesions, and to inflammation of the displayage is deding to degenerative changes and fibrotic thickening. In the author opinion the most probable cause is morthal change in

the disphragm

Whittemore, W Teratoma of the Right Chest Ca ity: Report of a Case. Arck Surg 0 3, vi. sh

The author reports the case of 15 year-old under developed and under nouraised boy who had had symptoms of tumor in the right side of the chest and bulsing of the chest will for fifteen months

Operation commeted of resection of the sixth rib f r 8 in section of the fifth, seventh, and eighth ribs near the vertebral column, removal of the tumor and ligation of the pedicle. The pattent recovered

Ingation of the pedicie. The patient recovered.

The tumor was cystic terratoms the size of large cantaloupe. It contained bony plates epider.

mis, and hair

The lung showed no tendency to expand

R. C. Wiens, M. D.

SURGERY OF THE ABDOMEN

ARDOMINAL WALL AND PERSTONEUM

I E BRANTOW M D

Ellerbrook, N. The Operative Treatment of Unibilleal Hernia (Zar operatives Rebandlung des Nabehalmutenches) Desirche med Wehnschr 9 zirus, 3

Ellevere reports case of ambited herms the age of the reple in which he beamed seconds as the reple in which he beamed seconds are reple in which he beamed seconds are replected by the result of the abdommit will they may reach a consended the Fer sech case, whiled has recommended cleaning the hermal covering with 80 per cent skobol, replacement of the contents, up proministion of the recting the production of the result of the contents, and the application of the result of

Care is necessary in highing the methical core for it separants berms of this type is not recognized by the midwide the misetimes will take be lighted but being its labor. When the hearts has ruptured and the vice rar as displaced, the interactions may be matriced for the middle cord. If a child is been with this feet the middle cord. If a child is been with this feet the middle cord. If a child is been with this core of the core of t

GASTRO-INTESTINAL TRACT

Alvaras, W. Cl. New Light on Gastric Peristalsis.

Am J. Recognid. 923 2, 3

With the aid of a specially devised apparation the author has been able to obtain electrogration and and necknotograms which have mercased our knowledge of gastric peristaliss. Details of most of the experimental work have been reported elsewhere in previous articles. M thods are now being devised for obtaining multiple and simultaneous mechanical and electrical ecords of the activities of the stomach and howel

A few electrogastrograms of the human tomach have been obtained. The lectrograms of the digestive tract closely resemble the corresponding mechanograms.

New evidence has been bitained as to the location and behavior of the gastric paremaker. Stomach blocks and dissociations have been observed. Cold discovery of gastric systoles has been confirmed. Several peculiar types: I permitaises are described, and certain contractions are shown which might be

called, by analogy pylone extra-systoles

Two or three different types of contraction may

take place amultaneously in one segment of the stomach as in one segment of bowel. There is close relatio between the activities if

the prioric end of the stomach and those of the dandenum

It is hoped that the new todaes will eventually being the physician and the rentigenologist to eros man and interpret symbourse in the same w y as the polygraph and the tring galvanometer have helped the heart speculant to recognize surroular fibrillation or heart block from the history of from the feel of the pulse. A control Harrison, M.D.

Apperly F L The Mechanism of Hyperchior hydris. Med J Australia, 922, 11, 25

Hyperchlothydra can be brought about by moreased rapidly of oraceaton, but a lowered by an increase of the pormally occurring alkaline regurgitation from the deadenium and is due more to failure of the neutrali sation apparatus than to any other factor

The opening and closing of the pyforus is must ter of tension on the two aides of the pyforus and some sensory mechanism in the disodomin rather than Canon's law. Rine of gistric tone is brought about by nervous factors. Hyperthyroidsm and sowns atrein may decrease decidenal tone. Activity of the disodomic contents may raise the ione.

Actual paracreas due se or of specifico of the channel in hich the june sormally enters the stomach m cause by perchlorby dria

The use of 0 4 per cent by drochloric acid for

testing on creatic face is under investigation The fractional test med facilitates the study of obscure distremus CAPILE LATSO MD

Red vch. H. F. The Distribution f Acid Cell Along the Dorsel Currature of the Mornoch and the Possible Relation to th Occurrence of Castrie Ulcer Sure Gymt &fibit 0 1 mi 1 \$7

the A true distribution of the and cell alone the lever curs ture is 61 on per cent of the dist rece from the card at onfice. They are found in one test numbers in the fund and re numerous ton rd the cardiopyloric juncture. Beyond the cardiopulone lancture they re f w nd scattered. Along the greater curs t re they are found t 55 per est of the distance from the citil we onace being numerou in the lumins ad crawag t the cardions lorse most re. Along the entral nr. atur acid tell stend 76 45 per cent of the distarce from the card ic onfice and hing the dorug curs ture they extend so super ent of the dus t ne. Here also they are located chaefts in the I notes and do not extend herond the callso

in lorse luncture The thickness of the murosa in the various por thous of the steen charges t rs in different

In conclusion the author states that likewish there not t be some relation but ern the occurrence of learn in the different regions of the

stopuch od the di tribution of the scul. Ils the leace is too hight t be onchastic I I II VIMOR VI D

Sculdt If The Pathological Relationship between Ulcerathre Processes in the Steensch and Daodenom and helgastric Herniss (Leber das pathologischen Britchungen swischen den akteroren Progesen am Magra und Daodenum und den epi postrocten II ruce) And f H Chir o ct

150 The relationship bet een beraug of the hora alba

ad the stomach has been recognized for long time In epigratric herain therefore an aphorators Innament to indicated The utbor has systematically earched for

serutic disorder in every case of epign tric hereix seen during the part t years I super er tol the cases of ulcer in buch operation as done consistent enteratric bernus as found. On the other hand 323 per cent of epigastrac bernue were esociated with alcerous processes in the store h or denderum Vales ere ffected more fre quently than irmales

Only a small percentage of the patients had no previous guarne symptoms \ umber complained only of pain in the stomach and ere una are of the presence of hermus In persons who had no per tous amptoms the stome it all decilentant

were found misci at e ribrators languages Cases 1th propounced gastric motors but a which the exploratory laparotomy revealed rothers but the bernin were especially interesting

Laploratory laparetomy is unaccen in eviwhen the wk m) be defantely excluded by ordin is diagnostic mensures. General complete regarding porerus, a feeling of pressure, and pura e of also only under certain conditions en often fact in the history lead t. false diamons On the other hand the presence of gastric or duodenal sher annot be excluded on the bass of relativel slight improces to rale moderat activity alives the found on observatil examination of the g stree cont ats hyperacidity ofte the breidits I the cases of hyperacidus the presence I a sicer uppeared probable even from the huttery but on the bole the citity test could ant he relied poor

Roenternography w med restor # 3 in percetal t andings ere offect I to cover bowever an alcer a not recognized being local unly on explor tory i narotom. When the engine tric beraus is not sociated the ker of the storach or duodenum triking nervise in the toucit) of the tomach noted in 1 rec umber of cases and signs of atom, or rise. The signs of increased tonkity to ret led unfolding of the storage on filling a dome bit tense gustne bubble bliquity of the main is of the tomach and elevation of the greater curves re There is adoubtedly a pathe logic rel tionship bet een incre sed tonick and ersen tric berni. Very often percualiscia retriceth refer The penal of ocre ed. probably apulsion is then shortened and on further examina tion the emptying is found delived. The repeated observation of spiritic condition, and the other mortons count t in acculation neurous due to the

epugastric bergin

The onclusion is dra a that the methods of extens two fail in the ob-cure and doubtful caresploratory I parotomy being pecessary for the diagnosis It seems ery probable that there is a genetic relationship bet een the keentive pro ewes in the stomach and duotienum and epigastro hernia. It must be sumed that sparkle conditions are produced in the grater all, ad these as we gested by Bergmann cause ulcer formation reflex through the stimulation exerted by the bernirl content. It is very difficult to provo that the epigastric berai a present before the first epopulars imptom. The reflex does not never sard originat in an adherent tip of peritonesia, as true per toneal bernie are rare. Tension on the pentoneal ring due t increased ustra abdomin l pressure in) be sufficient. The rel trombup be t een epegatics; bernia and the excitation negrotic a) astronge moted in 50 per cent of the cracs cannot be merely realental

The uthor has previousl described on unular shepomen in the storeach and doorlessum occurring Scat seer (4) to grall stoops color

Resident W Pylorectomy for High Ulcer of the Lesser Curvature (Pylorektoma bes hochberendem Ukra der kleinen Karratur) IFreischehneje Drde o L. m. 145

In the case of an ulcer lying high in the tomach transverse resection, although it has its disadvan tages, is considered the operation of choice. The mortality following it is greater than that f llowing rastro enterostomy t as sometimes and to cause an hour glass stomach, recurrence cannot be absolutely prevented and finally it is a severe operation which cannot be considered in every case. As pylorospasm. is constant complication of high ulcer and as this

prevents its bealing the author performed a pylor ectomy in case of this type in which resection could not be carried out on account of the nationt s condition. This was a case if callons ulcer of the lesser curvature at the junction of the cardiac and middle thirds. Upon examination one and a half mo the after operation, the patient was free from symptoms

Whether pylorectomy can be performed in all such cases in for the future t demonstrate, but the operation has many advantages over gastroenterostomy and resection in that many of the well recognized complications which may follow eastro enterostomy are absent, it is a relatively simple procedure, and the resulting condition permits the stomach to empty trelf readily Voy Hour (Z)

Roepke, W How Should an Ulcer f the Stormech and Duodenum Which Has Perforated into the Abdominal Cavity Be Operated on and Treated? (No soil des frei in die Beschhoebie derchgebrochene Grachwaer des Massas und Zwoelfinserdarms sement und behandelt erden?) Dentsche med

981, Myn \$99 The author reports his experiences in nineteen cases of older of the stomach and duodenum which

perforated int the abdominal cavity It is now generally recognized that the treatment of such cases is surgical. The fact that in certain cases the liver or the omentum will restrict the accumulation of gastric contents t the upper abdominal space and thus prevent diffuse peritonitis for some time or permanently cannot be used as an argument gainst operative treatment

The operation should be undertaken as soon as possible. As rule twill bring rehef as suppurative perstombs generally does not develop until after

twenty-four hours

I the thirteen cases in which operation was don than the first fort eight hours there were no deaths while in the six cases in which it was per formed after forty eight bours the mortality was so per cent. Complications, such as pelvic and subphrenic suppurations ppear within eight hours of the operation in per cent i the cases, a thin forty-eight bours in 37 5 per cent and after forty eight hours in 66 6 per cent

Roepke opens the belomen by medium incusion. bove the umbilious. This should be mid no loaner

than absolutely necessary as every additional enlargement means greater cooling of the pentoneum and increases the danger of viaceral prolapse which may require forceful repositio and lowers the reextence of the pentoneum

In regard to the treatment of the perforated ulcer uself Roeoke declares himself a decided opponent of any procedure including resection of the diseased portion of the stomach. As a rule, he merely sutures over the perforation. H warms against excenng the callous parts of the border to obtain normal movable eastric wall for the enture because this procedure may cause large defect the closure of which prolongs the operation T re inforce the sature or the peroximated w und edges tip of the opentum or the hepatic ligament or free trans plant may be entured t at Ulcers treated in this manner tend t heal quickly especially when eastro-enterostomy is done in addition. A strip f eauze erres sufficient dramage of wound secretions

The infected and minal cavity should be treated by the simplest and most rapid procedure possible Roepke does not approve of irrigation, p eferring mere sponging out of the foreign material. The peri toneum will take care of the maccemble portions. either resorbing or encapsulating them. The mor tality in cases treated by urigation (83 reported m the literatur) was to 8 per cent while in Roeple cases it was 5 7 per cent

Gastro enterestemy is performed in the presence stenous or when its development is feared as f rinstance when the site if the ulcer is near or it the pylorus of in the duodenium, where construction may be caused by healing as well as the use ! on ture. The gastro enterestomy relieves the sit of operation in every case particularly when only simple suture has been applied furthermore, t is the best method to f healing of ulcers and allows the patient to take sufficient nourishment very auti-

Roepl perf rms posterno gustro enterostomy m all cases in which the operation is done within forty eight hours and which appear sintable in later cases he applies t only when dustal stenous is present or threatening. He does not use it when supportained pentonita is present

Posterior gastro-enterostomy was done in thirteen of the nmeteen cases reported. The one death occurred in case in which cleaning f the gastro intestinal tract was done only after an interval f seventy to hours and there was severe stenous Of the mx patients not treated by gastro enterestomy two deed after an interval of ninety-five and minety and hours respectively

Subsequent examinations showed that eleven f the patients treated by gastro enterest my were entirely free from a mptoms, whereas f the six not so treated, one required second operation for nicer

The after treatment should consist of rest dietetic treatment and the pplication of heat t the abdomen to obtain belominal hyperarms and promote intestmal peristalses Door (Z)

Schmidt, E. R. Porty Four Cases of Simple Perforation of Gastric and Duodenal Ulcars with Single Method of Surgical Treatment. Acta theory Sand. 911, 1-314

The author states that the average mortality of simple perforating alcers of the stomach and doodenum is between 1 and 40 per cent. He reports forty four cases operated upon during the years ood- get by seven different surgeons many the same method. In no case was operation refused on account of the patient's poor general condition The lexion develops most frequently bet een the twenty-first ad fortieth years of age. In the author's series there were t patients under a years and fourteen over 40 years. Thurty-two of the patients were males. One deodenal alter was found in a female patient and nine occurred in male patients. Five of the forty four patients gave no ulcer buttery The remainder had had tileer symp toms for periods ranging from few weeks to over twenty three years

The mortality was 3 30 per cent in the case operated upon t eine boars of iese after performen, and 37 per cent in those operated upon the when the tech and thirty boars after perforation. While the time chapsing between the perforation and operate to a very important with repart to the prognoss, the location of the utility are stoped to the perforation from are also of great sputificance. The mortality increases decedy with the distance of the perforation from the pytherm I the salers as notinged the foreign time and the salers of the perforation from the pytherm I the salers as notinged the foreign to come of possible for localizing because if Seighboring adhessors. If the perforation corrum when the stomatch is empty localization in

more and to occur than if the stomach were full There ere no deaths in the ten cases of deodenal perforation. The perforation was closed by extrained the ulcer and then saturing. When excision was impossible the ulcer was infolded. A gastrontomy was then performed and the abdomen irrusted with normal as one solution at an degrees C. A drain was used in only five of the cases. When the national was returned to his bed he was given proctedyws, hypodetriatoriyas, and sufficient morphise to releve pain. As soon as he regamed consciousness he was allowed to he vichy ater or vichy and milk The amount of find taken by mouth and the amount that ran out I the gastrostomy tobe were recorded A few day after the operation the gastrostomy tube was closed. If there was no matters or romiting by the end of a week, the tube was removed. An ulcer diet was given for some time after the opera tion The erage length of time the patients remained in the hospital was 33 30 days

Of the forty-four patients operated upon, elemented. The uter was extended in thirty-mass causes and sutured in four. In one, a Watter fixtule use made. A Militains plastic was performed to one ones, and gastrogastroatomy for bour glass construction of the stomach in one. In later study of these cases it was found that clearer of the easily

four patients had had no further symptoms, there had mild symptoms, are had a recurrence and had undergone medical treatment, i o had had recur rence necessitating operations, and two ere deal. The uthor dra a the following condensors.

Perforation may occur at any age, but neces sarily occur, more often during the ulter bearing

period

The mortality depends for the most part on
three factors the time clapsing bet een the perior
tion and operation, the seventy of the pentionin,
and the pittent general conclusion at the time of
perforation. The mortality rates of the different
actes of cases reported will virty as these factor.

vary in the cases compraing the series
3 Gastro-enterostomy B superfuses procedure
in the treatment of perforated ulcer. By employing
gastrostomy fracted the mortality rate can be re-

duced from to 6 c per cent

4 The pastrostomy opening serves as a salety valve. Accurates me to the piven through it exbefore the princet salesn from the surcoss. 40 the postoperatin choomfort of erretation, becough nature and vomiting se chimated. It lavage is necessary the sample procedure and not desarresuble to the orthogo-

5 Primary suture of the abdomen after therough irrigation with normal self solution at 40 degrees C

favors a emooth postoperative recovery

6 Of twenty t o p tients re-examined, only

the have required accord operation for recurrence of the ulter

7 When they leave the hospital, princits should be impressed with the fact that an after det in very secretal for continued fereriom from recurrence of ulcer of that it is highly desirable for them to remain under sectical control for some time.
8 he cases of exacter of the stometh developed

in the series of cases reviewed

9 A high median incusion has proved most alia-

g A high median incuion has proved mon this
factory

Excusion of the alter removes pathologic tissue allows pproximation. I the edges so that there is no protrading alterated surface on the is side, reduces the tension of the surfaces, allowed better hold for the setures and leaves less sort them after bealing.

Persons it is ulcer should be arried of the possibility of recurrence of the ulcer and perforation.

JAR Macol. MD

Cutier E. C. ad Smith, J. A. Lymphoblasterm of the Stoemech; Report of Tu. Cases. Smit Clos. H. Am. 10.2, 8, 95

The authors prefer the term lymphobistoms of the stomach to lymphostroms and assert that the ardinermonal was of the term surfaces, the state of the term surfaces are faturely rare. At the May, Class there or the cases during the period from 0 3 to 900 proportion of one lymphostroma to saxty eight garine curvosoms. The lymphostroma is the surface of the state of the

most common form of gastine sercoma. Of Hag gard a serenty-are case of gastine sercome, after presented a time of braph-cell origin. Since the third present of the third present of the present of the present of the present of the present common proper of the present of the pr

The differential diagnosis from cancer is practically impossible. The gray, symptome, and gatter analysis are nearly the same. Hemorrhage and mermia are not so common is in cancer because the micron membrane more frequently remains mixet. The turner tends to proper int. the lamon mixet. The function tends to proper int. It is a superior to the following the same properties. The handy is supported in the convention of the same properties.

The authors report two cases of lymphoblastoma diagnosed as cancer

Clair. The patient was man so years of age, who, seven months provious to adminish not be hospital, experienced a progressive loss of appetrationally during the last its months, almost no footing the patient had been taken. Nusses and a slight crump-lik eyagastre pain followed the ingestion of cod and changing of the position in bed it night. The pain did not reduce the patient became realises and lost steep. He seight dropped from

35 to 20 lbs
The patient was poorly nourshed man with carrous teeth pyorthors, and foul breath The abdomen was soft and symmetrical A firm, slightly tender mass the size of an orange, which seemed to move with respiration, could be felt high in the left epigastrum. The hemoglobin was 75 per cent. There was absence of free hydrochloric acid, and the total gastric acidity was low X-ray examination revealed filling defect high up on the lesser curvature in the cardiac remon of the stomach, which ppeared displaced forward and t the left. The fixation and irregularity of the stomach suggested malignancy. At operation, the peritoneal cavity was found to contain a moderate amount of slightly turbed find. The stomach was distended with gas. A large mass just beneath the disphragin overlay the orts, pushed the cardiac end of the atomach toward the left, and militrated the lesser curs ture. The regional lymph glands were enlarged. The condition was diagnosed as moperable cancer After the operation the patient had persustent becough and an irregular pulse Death occurred eight hours after the operation The pathologic diagnosis was gastric lymphosar come a th metastases t the regional and retro-persioneal lymph glands od fat. The perstonesi The pentoneel fluid contained staphylococci and lencocytes

CARE 1 This case was that of man, aged 57 years, who gave a history of dull epigastric pain com ing on about one half hour after meals for ten months This pain gradually became more severe until, during the last five weeks, it had been co timbous agony The ingestion of meat aggravated the condition. The patient had lost 38 lbs. and was poorly nounshed Shight epigastric tenderness was found, but no pulpable mass. The hiemogloban was 65 per cent and the red blood cells umbered 3 74 ,000 There was absence of free hydrochloric acid. The total gustric acidity was low X ray examination showed a definite annular con striction in the antrum. At operatio, the stomach appeared normal, but palpution revealed, 1/2 in from the pylorus, a hard stregular mass which contricted the lumen until it scarcely admitted a fin ger trp The regional lymph glands were enlarged The greatric turnor pylorus, and in of the duo denum were resected and posteno gastro enter ostomy was don Convalencence was complicated by bronchopneumonu. Twelve months after th operation the patient had gestric complaint, felt well had worked f ax months, weighed 33 lbs and showed no abdominal masses o tende ness. The pathologic diagnosis was gastric lympho-WALDER C BURNET M D SAFEDODS.

Starr F N G Cancer of the Stomach. Casedia If Arr J 9 3, Em. 84

The author emphasizes the f ct that pain is fren late symptom in cancer of the stomach. An examination for this condition should be mad when patent complains of decomfort in the estation occurring at irregular intervals without relation to food intake and associated in local of a complaint of the condition of the control of the condition of the

In the five years from 907 t 9 melnave the author operated on eight cases of camer of the stomach. In only four was t possible to perform gastro enterostomy. N radical operations were done from 101 to 6 inclusive twenty more cases.

errom 191 to 9 to inclusive twently nine cases were operated upon In thurteen (45 per cmt); a palliative gastro enterestomy was possible. In five (7 per cmt) resociation of the stometh as id no One if the pathents treated by gastreds was id no fineumonia three youts later two are still living, and two cannot be traced.

From 9.7 to 9.1 inclusive thirty nine cases if gather cancer were treated in twelve publishive gather enterostomy was done, and in thirteen (appetrent) makes operation 0 (the patterns subjected i radical operation four died (ne of diagred thock it days later one of perumonal eleven days later and no of secondaries in the here is years later) one is now dying of secondaries in the irrespectioned gaths and end secondaries in the retroperationed gaths and end as contains a first of the secondaries of the secondaries in the retroperationed gaths and end as did well.

The a thor ad ocates exploring lat cases under local mesthesia after pre-operative treatment con-

assing of the administration of a per cent solvent bocarbonal solution with t per cent glucose by Murphy drip of gastric lavage the aight before and the morning of the operation. Dring the operation hypotenouchs us of normal line should be my natio the audit. The atent of the operation will drived on the condition found.

JAII VIO MD

Dahl Iversen F. Ulcerated Carcinoma pd Carcinomators Ulcer himilating Round Ulcer (Ulctro-cancer et caucer kété templast Inkére mede) let mel k nd. n. l. 1.

I we recrepted high lineal eresmilist the of gatter for the open tion one is precented the picture of it paid gaster skerstrated upon the lever size the of microscopical boxed arraneom tous harge. I the other case hard softmand correson this is selected influer as found.

Lorest 1 m 31 l

Walker I J. Pestaperative Obstruction of th homali Intestine Tary Ct. 1 in g is

Because of it present bigh mortalit of bout jo per creat intestinal obstruct in an insoch decaded as any post laparation outplication. The treat ment of arrit item has not progressed as has the treatment of other cut belominal conditions.

The high mortality of obstruction of the small interfine is due brefly t the non-recognition of the small interfine is due brefly t the non-recognition of the serbourners of as implant by the lasts waith the condition is loopeless, or the inside our consert of the condition following operation hale the patient is staff under the even. I the startent

The author di ides acut portoperativ obstruction into into it types that nor rings author feed day or cricks after peration and that coming on months or years iter a lipercolon. The forcer occurs wouth in patient. Heroscalerable infection, trauma or derative and appears about the fifth day after operation. The little is due to the crick of the cricks of the cricks

date produced fler operation
Adhesisms are located here trauma and infection have been greatest. This is usually in the ileum

Death is caused by the absorption of toxus. The athor is nable t describe con tautly typical sy drome or to differentiat other obscure beterninal conditions. In the different al diagnosis he relies upon the history especially as regards canatity factors in the production of adhereous, and the development of the symptoms. In a case ented typical case of scut postoperatin obstruc-tion the diagnosis rested on the subent features of () comittee thout known cause first of stomach contents, Inter of bile stamed fluid and later of yel low contexts of the oper intestinal tract which was ancontrolled by the restriction of fluxle by mouth nd grunch age and () a decrease in the amount of flates follo ung repe ted enemat. I' in tion of scept in the the belomen is greatly segal

principle of beginning peritonith. The pulse grafe ally increases in rapidity and in the lat cases becomes weak and irregula. The mortality ranso from 3 to 00 per cent, depunding thom the doubten of the abstruction. Recovery resulted in 90 per cent of the cases operated upon within the few origin.

Tre truest should be directed first to aid the relat of the tonc cond too with the least amount of shock. Will recommend splumstam under lead samplifies, followed at a later date by open

too for the rebel of adhesion. I the technique wed by the uthor the ionases is used in the another or the upper left quadrat. The jejmons is located by the harmest of Treat and the uppermost loop is grasped with the forces. To a pure-timing soluties are through around it forces, an opening is made until the get large around 1 pas > 5 or 17 French self training eatherer a diste persenting are field. The calle for it has passed through a position of the eventure which in drop does and seat the part here the which of the person of the sevential training and the self-through a position of the eventure which is the person of the eventure which is drop through a position of the first through a self-through a person of the pers

In closure necessary.

The operation for the relief of the obstruction at undertaken after the true at approximate a rule state a rule state of you. When obstruction is caused by acute inflammation relief in wealth obtained without further operative later/ferees.

In sense of sittem cases in which permanents as done for the triler of obstruction occurring that 8 i fourteen days after operation, records took place thout further operatine procedure fremotions in drounded as method which ill lower the present high stortisher rate of scula rates must obstruct on Millian K. Escherico M.D.

Quain, F. P. Chronic Decdenal Obstruction— Effelogy, Symptoms, and Trestment. Y 1st M.J. S. Mel. Rec. 9 crv, 631

Chronic duodenal obstruction causes ymptons arying from mid epignatric distress to severe lead the consting, and critico The condition is efter confused with guarter after gill bladder disease

and approductis.

The most common symptoms are chrosic eygratine distress back stones in time and duration
but a small, one two or three boars after eating,
nawe the outsing of often large quant lies of
contrate containing fair consequence perchantretires of headsoft. The purposes despitable
ther copposed from a diagnation. The princet near
be confident to bed more often by the severe head
aske than but he seates.

This obstruction of the diodenum tray be due to several different crimes, but the uprofits position is responsible indirectly. A short increasery all present the down and gravitation of the sterious

ex common

The blood vessels are the chief support of the mesen tery which, if short must bear the course weight if the meatmen, this being the cause of the serious pathologic results.

The duodenojejunal juncture between the aorta and the superior mesenteric artery may cause constriction of the mesentery is short. An excess of fairous tissus, it this juncture causes further con

striction

A scood cause of constriction is a mobile saceod
ing colon with a mesentery largely supported by the
cubic media artery, which presets upon the third
portion of the disodenum, causing obstriction and
dilaration.

A short fetal mesentery will prevent the ascending colon and hepatic flexure from reaching their multilocations and thus cause coloptosis on the right and In such cases both of the preceding factors may construct the disorders.

Since these conditions are congenital, the symptoms usually dat from early childhood

A postive disgnoss can be made with the \ray
by turning the patient saleway Bulging or dis
placement of the duodenum may be associated with

barrum residue or delayed emoty ing

In mild cases recumbent position after meals, or elevation of the lower abdomen in the knee chest in the Trendelenburg position will often allow the doodenal muscles it recain their tone.

In more advanced cases non-operativ treatment includes rest in bed for few weeks the Trendelen burg position for several hours each day and the application of pad over the lower abdomen

If surgery is drysmble all the upper abdominal organ should be thoroughly examined at the time of the operation. Flours of the right color will smallly be relieved by first time. If distation extends to the general junctime, dundenop-innostomy is the best treatment. Care must be taken not it injure the blood vessels or lymph glands. A description of the operation follow.

The author has been able t cure relieve nearly go per cent of these cases

MARCOR H HORART M D

Macras, D. J. Chrome Duodenal and Gestric Ulor Duegnoss J. Laucet. 9 3 rbs., só

The technique of operation for chrone duodenal and patter used or a matter of choose and should be decided upon after the botomen is opened. Moy make has said that of every ten cases. I consist factory results after patter enteroriomy nine are due to the fact that the peration as performed in the alterns; I any organic lesson to justify it.

The two onditions about not be discussed as one subject since the pathology symptoms, and treatment are distinct. The projects white line and prions on may be taken as the anatomical has of domarkation.

Gastne uker as rare ducase as compared with doodenal uker () Persons with gastne uker re usually emacasted, weak, and pale. The uker

vame greatly in appearance and semathor. In some cases it perforates the liver and pancress. It is subject to cancerous degeneration causes severe pain soon after eating in calls for gairn enter octomy combined with excision canternation.

gastrectony
Droodenal ulcer on the other hand, is a commo
lenon d in many cases causes only mild sympt ms
It wants hitle in size and appearance, and it
symptoms commodly resemble those of other
abdominal affections. Its pain a delayed. The
transment of choose is gratic enterestomy without

In case of pastro ulcer the past a typically regular shortly fifter the inpersion of food. In cases f doodenal ulcer there is a feeling if fullness and documfort. Tenderiese is not usually characteristic but a deep pass in the expansion boring through the back ruggests leason on the posterior surface. The sequence, food—comfort—pass—food comfort—pass—food—comfort—pas

the diagnous of gastric ulcer

Comiting is not an important diagnostic symptom except in marked tenors, and is given too

me the prominence in the textbooks.

Hemorrhage is also given too much prominence in the literature. Blood is found in the stool or womittes in less than so per cent of the cases of gastine tider. On the other hind it is one of the first and most important again of curbons if the liner and has been the cases of many oversitions for

apposed gastic alore. When the hastoy has been taken carefully little can be gained by a physical examinatio. The examination of the stomach contents should be discribed. Exploratory operation with examination of the uter u, of course, the only some means of detecting the condition. The X-ray is figure value but should not be given too much importance.

The cause if ulcer is usually injection from other parts. Ninety per-cent of cases of so called dypoposis or other stomach troubles diagnosed as ulcer without the X-ray or surgery are of cases if ulcer. The tw. chief offenders are the appendix and still blodder.

The pylone valve has been mustaken by some trespentenced operat in for user. The white hard was so dangnosed in case in which utopsy proved the absence of ulcer.

The author states that an operation for ulcer should never be performed unless the ulce can be seen and felt. All chrons ulcers should be removed if possible.

Marcos II Honary M D.

Bettman, R B and Binm, D M Acute Intestinal Obstruction Caused by Facal Impaction in Meckel Diverticulum. J In W Au 923 http., 50

The case reported, that f boy years f ge, as of interest because of the rarriy f the pathologic condition. Eight inches above the ileogral valve. Meckel diverticulum protraded f om the ante-

mesentene lorder of the latest or Gentle pressure on the duretticulum caused the strettogal contents I slip lato the collapsed item followed by gas and foold crassing, a garging sound. The contents could be milled along the Denn into the large interture. Nattempt was made to obliterate the divertication. Recovery was uneventful. Late of certification on the desired of the content of the divertication of the content of the divertication. Recovery was uneventful. Late of the divertication of the divertication of the divertication of the divertication.

McFarlan P F 1 testion Obstruction Fallewing Acut Appendicitie and Peritonitie. Res M J 9 J | 6

The cree reported was it to for special mass to severated upon for saute approachasts but it bours after the acuts coset of lever preraised tendernees over the rature lover abdorace, and marked rigidary. These produces that the special special was been and previous attacks. It operation a grarmous appropriate was tempored and found to continut to concretions. The point of Douglas cost land of light continues to the product of the product of the point cost land of light cost of the product of th

duced lat the pouch of Dougla The postoperative man general included the administration of glacove and saline solution per rectum and gr of morphine on the first ght The temperature was pormal the following enorming and never rose above to degrees ! The pulse was pormal on the fifth day I rom the second night the patient complained of internations pure and deure t more his boarts. If also showed slight distention. On the eye our of the third do he was en en a em li turnentine epema, ad on the fourth day caster oil and nothe turpenter carms. The how is moved aboutly that aught and three times the peat d y akted by gr of calound hostly up to s gr and another enems. The distriction increased constantly however and the discomfort contemped There as no senting On the seventh ad elebth days there ere several small brend movements. The distention had increased to such an e test that it stretched and opened the incision On the ninth d the bdomen as ocened The small extesting as found distended above draw adhesion buch bound it breaks to the mese tery of the rulesc colon I offorms this operation there as distention of the stomach but this was redored rapedly by gastric lavage. Thirty hours feer the operation the patient we given pituitine, and ene mult, and castor oil by the stometh tube. The ne t d 3 he had opious highed execuation and for day or t be was releved but then became much worse falteen days after the anst operation the slews was opened and tube placed therein

This relay of the distention and the bow is moved freely to days little Slow recovery followed. By the end of the seath week the patient left the bospatal. In the omash besief but with herms the seat of the preedix noneson.

If W Frox, M.D.

Oudard A Case of Cystic Appendicitie (E cu d appendicite kystope) Byd of min Sec de dur de Par 9 3, https://doi.org/10.1009/ Cases of costle symposium for any comp

Cases of cyatic appendiculs are rare. The author

The leason are of 1 principal types. Those of the first type is shown as be called memories, and the essentially t hypertrophy of the hospical times of the permits the imment of leak are discussed by macus. Those of the second type leaked mental are casts. Used the anticone of inflarmation and repair accordancy carries with dobras of the second the primary can styrate formed. In the raperty of cases there is a communication between the castles of the cyts and the spreadur. The discrete all cy is seems to due to small princial abscribed opening and the limits of the popular their background and the common discrete and the control of the control

The utbor's case was different iron rathe of these usual types (mucords and derectualism). Histologic extinuation bowed attention the hypersemb type in devices electric factors of the hypersemb type in devices electric leasen and traces of old timer inflammation. I adultion to these signs of ordinary appeaders, a solutary construed de critical in at the base and averall subsence systic formations were found The discrimination at a last the strategy of the base Whatever may he a be to the prologorous, if

Whatever may hat of been the pulloperovar of this outlying of verticalar cyst, the approached court for completely independent of the extracul direction for completely independent of the extracul direction lacked optoderom, and blood content constituted a distinct type of featon. To A Service Court for the extraction of the extraction

Philer C. H. Hamorrhage Fallowing Abdoxinal Operations; with hypotal Reference 1 Appeadicatesmy and Excluding Receiving from the Stamp. Surg Grac. & Olar 323 XXXV, 80.

Lukech found that enterorrhagia occurred once in every hyndred operations for strangulated her ms Postoperative hamstenesis after abdomisoperations i rare It may follow operations of the peritonoum, omentum intestine gall blidder Luiney oterus, and overses, usually from the second to the tenth day. The author reports the case of young girl subjected to ppendectorry for sobscutt appeadants by developed symptoms of harmon thage and passed blood by the hourts on the second day it the operation A accord laparotomy as then done. The prendix stump was lound to be in good condition. The bleeding crased on the fifth day following the usual treatment for hymorrhigh I the athor opinion the hamorrhage is this case was due t thromboses th embolism of the wallof the tatestine followed by alteration

Philes collected from the hierature forty three cases of postoperatin. Immorrhage following all dominal operations. There were t enty-one recoveries and twenty one deaths. I one case report the

result is not stated. In five cases, in which there was one death, the bleeding was from the bowel in seven, in which there were two deaths, it occurred from the wound and in twenty-six cases, in which there were seventeen deaths, it occurred from the stomach. In three case reports the nature of the hemorrhage is not stated in four instances ulcers were found in the stomach or duodenum

Direct hamorrhage following appendectomy may occur from the superficial abdominal years, the meso amoendix, the bowel, the abecess cavity the deep engrating and external thac arteries, or the

appendix stump Mornihan states that postoperative hæmatem ens is the looked for especially after operations on the stormach decelerum and bile passages. As responsible factors he mentions () the anaesthetic () more to the stomach bowel resulting in ulceration (3) layory to the omentum causing thrombosis of the omentum followed by embolism in the walls of the stomach or boacl (you Euclaberg) (a) serous (Rodman) and (c) reflex influence (Mayo Robson)

The author regards traums and embolism alone or combined as the cause of this condition

JAH MAOOUN, MD

Oudard and Jean Inguinal Hernia on th Right Side F Bowing Appendectomy (Hernes ingus-sales drostes après ppendicactoms) J d clar 0 1, EE, 584

thors report nine cases of inguinal hernia on the right side buch occurred in adult males following ppendectomy. The a erage time between the operation and the development of the hernia as therteen months. The content of the hernul m was chronically inflamed omentum. The sac was very thin and the omentum firmly trached by dense adhesions. The abdominal wall was thinned nd weakened and the external bdominal ring enlarged. An impulse upon congling was noted

The adhenous of the omentum to the perstones! all no doubt occurred t the time of the attack of appendicts or immediately after the operation and constituted probably the primary pathogenic factor in the development of the herms. Direct injury of the muscles or the nerve supply of the muscles of the anterior abdominal all caused the

necessary weakening of resistance Clinically these bernie resemble the ordinary inguinal hernor but the sac differs materially from that found in cases of congenital failure of the procreams vagmans to close completely. As rule bermo laparotomy is necessary LOTAL E D VIL M D

Bonnet: Residual Appendicular Abscesses Open-ing into the Bladder by the Subperitonsal Route After the Removal of the Appendix (De l'enverture dans la vemis par vois gempératoonale des abela appendiculaires réadurés, après ablation de l'appendica). L'irre clur 9 xix 35

Bonnet patient man 40 years of age was operated upon for gangrenous ppendicitis. Three

weeks after the removal of the appendix a subpentoneal pertrectal becam developed to the left of the rectum and drained into the bladder

Subpentonesi pelvic phegmons in appendicitis are rare. Abscesses in the space of Retsins are more common these also may open into the bladder In the case reported the gangrenous appendicitis caused pentonitus. A drain was placed in the Douglas sac and brought out t the lower end of the sound Dunne the days following, gangren of the aponeurods developed and some of the infecting find from the pentoneum infiltrated the muscula ture It is possible that the pentonitic fluid may have filtered into the lower pelves bet een the peri toneum and the muscle planes. Bonnet therefore recommends the use of a pentopeal dram and saturing of the hos of the peritogeum to the aponeurotic planes to prevent infiltration I the subperitoneal cellular tis-ne R A BREY

End to-End Intestinal Ansa-Trueblood, D. V tomosis An Experimental Study Arthrest Med 9 3 xxx. 7

The operation described, which is still in its experimental stage, is pplicable to the large and small howels for end to end or end t side anastomosus. The diseased bowel is resected by means of small clamps and ca tery. The two ends are anoroximated and the cauterized edges turned up so that continuous Coshing matteres suture ca he introduced as close to the clamps as possible This loose continuous suture is then pulled taut to poronimate the serous surfaces of the posterior hne of the anastomous and then locked by taking an extra late through the two pproximated edges When an intestine is crushed the the crushing clamp the murosa and smooth muscle trasue squeeze out from under the clamp, leaving the serosa and submuces of the t walls pressed together into

fibrous ribbon \\ hen the clamps are removed ribbons stand up stilly side by side Both ends of the ribbons are caught in small bemotats and the ribbons held taut while one or more

basting titches are introduced

The continuous Cushing mattress suture is continued around the board and the tall ends are tied The basting threads are then withdrawn reenforcement, especially at the mesentenc edge Habited mattress sutures are introduced and continued all the way round where necessary The rent in the mesentery is then closed By grasp ing on each side f the anastomous with the thumb and forefinger the approximated lips are separated and the size of the toma may be determined The twent held in the two small hemostats is ca terrzed way from the crushing clamp. The ribbon

held within this clamp is united to that opposite The following conclusions are drawn

The procedure described is simple aseptic method f anastomic suture in which the openings are closed by basting threads which after the anastomom has been completed, are a thdrawn

It is policable to the large and small intest nes for almost any type of union in any location Garmor F Berr v M D

Symonds, C.: Gonorrhand Stricture of the Rectum Free Rey See Hed Load 9 3 xvs. Sect Surg

The type of stricture to which Symonds refers myolves the lower 3 or 4 in of the rectum including the anal margin and the entire circumference of the bowel The bowel show bands and bridles of indurated muscle separated by pockets, from the bottom of which fistulous tracts lead into the vagina or t the surface around the anna Extreme narrow ing occurs t several nomis and in advanced cuses ill not permit digital examination. Hard polypoul growths re found surrounding the anal margin The patient states that a discharge from the rectum

has persisted for many years

The uthor reports seven cases, all those of omen In t cases colostomy was follo ed by symptoms of toxic absorption and death. In one case following a digital examination, there is professe duarriers with blood and pes follo ed by collapse and death I another case death occurred after the removal of the polypoid masses I t cases the removal I the cicatrici I areas was under taken some time fter colostomy I one the results were successful but in the other it was impossible t reach bealthy box el. One case as releved by colortomy

The athor was able to find spectmens of thirty eight other crises in museums. Many of these m. seum specimens ere l'beled syphilitic origin



Concriberal structure of rectum as female



Comprised structure of retires in male

In the treatment of this roadston various proce dures m y be employed t meet certain indications The use of bourses and drymon of the stricture is limited because of the dange of perforation Excasion on he done only hen the limits of the duence can be reached with the examining inger Colostomy occupies prominent place in the treat ment Crecostomy and appendicostomy may be almable to relected cases. I.E. Resmon M.D.

> LIVER, GALL-BLADDER, PANCREAS, AND SPLESS

es, J F T The Removal of Retention Cyst from the Liver Ass Sert out, bonn, 68

Non parameter hyer cy is may be channed as

Teratomatom or embryomatom cysts Pseudocysta, including cystic degeneration of carcinoma nd surcoma, softening of cirrhotic nodes,

and cysts due to hermorrhage Lymphatic cysts which contain clear watery, cliowish fluid th albumm, large percentage of sodrum chloride and no bile, are nevally small, and

are lined with endothelium 4 Cystic degeneration of the liver associated

th cystic kidneys, and also occasionally with crats in the spicen panerras, or overy The crats macroscopic are and ary from microscopic t are hard the control on ranging from low to by throus turns. The find is clear albuminous, nd free from bile and may show cholesterns, leucm blood, and creature

5 Cysts which rise from blood course

6 Single or multiple cystadenomats which are hard with epsthelium and contain clear or turbid albuminous, variously colored fluid.

7 Simple chated enathellal cysts, which are no larger than walnut, free from bile and located on the anterior surface of the liver near the suspensory

ligament and along the inferior border 8 Retention cysts, which are due to the engorge ment of a bale duct and contain serous or mincons

fined or bale

A non-parasitic cyst is usually lined with epithehum or endothelium

A parasitic cyst may be ruled out by microscopic examination of the fluid and cyst wall. The fluid of a cret containing a living hydated is colorless it contains succinic send, and suga but no albumin I some cases there may be booklets, scohers, or danishter cross. When the hydated is dead the field becomes turbed, albummous, and torue A hydatid tyst show an outer espenie the ectoryst and an inner membrane, the endocyst which, with is daughter eyet, may be readily shelled out. The value of hydated thrill in the differential diagnoses a very questionable. The various laboratory tests for hydated discuse—miostagmin, Abderhalden, and intradermic reactions, the complement-fixation, and cutaneous tests may be positive

The dumosa of non parasitic liver cyst is seldom made before operation or autopay Such cysts are mataken for hydated or oversen cysts, hydrocephrone, mesentene custs, parasitic cysts, tuberculous pentomins, distended gall-bladder sesale tumor of the liver etc. Occasionally the \-ray may show relation of the cyst to the liver shadow or rale out the thoracse condition. It is important to differentiate the extrahepatic fule duct cysts, such as a diverticulum or adsopathic dilutation of the common bile duct, which should be treated by minury choledocho-enterostomy

Complications, such as ruptur hemorrhage, and

supperation, ha e been rare

The treatment for both paramue and non para mix cysts a number. After the interior of the cyst has been disinfected and the cyst lining destroyed by chemical means, and, in cases of hydraud discuse, the endocyst has been removed, the sac is stitched to the abdominal wall (marsupralization) The cyst may be drained or the abdominal wound closed sthoot dramage Occasionally an encapsulated cyst may be completely extract. In non-encapenlated cysts, because of the difficulty of poroach and hemorrhage very thin capsule excision of the sac n madvamble. A pedicled cyst may be completely removed. If a non parasitic crist cannot be extir pated or marsupulized, the cyst wall may be anastomosed t the doodenum

The author gives basel report of sixty-one cases of non parasitic liver cysts operated upon surgically which have been reported in the literature, and inchides one case of his own

The author's patient was 17 year-old garl with an oval abdominal swelling which projected in the

midline extended 114 in below the umbificus, and above seemed lost under the transverse colon cyst could be moved only from side to side. The abdominal wall was movable over it. The liver was not palpable. Local pain was felt in the swelling

There was no isundice At operation a grayish white ovold cost measur mg 19 by 10 cm which was trached to the anterior marrin of the left lobe I the liver was completely exceed. The ran liver edge was then cauterized

and sentered with catent. The patient made complet recovery

The dark, ercenuch wand find contained by the cyst was negative on microscopic examination and stenie on bacteriological examination. The Crist wall consisted of a thin layer of dense fibrous tissue lined by a single layer of low cuboidal epithelium which was partially desquamated. An occasional duct-like formation was found embedded in the crest wall. The diagnosis was retention crest of the hver WALTER C BUREET, M D

Helvestine, F., Jr Primary Carcinoms of the Liver J Cancer Research, 922 VII, 109

uthor considers the following questions (1) whether the cancer is derived from the inter cells or from cells of the smaller bile ducts () whether there is any relationship between the mahamant growth and curbous (s) whether the growth takes place by gradual metamorphous of liver cells into cancer cells, or by autocellular prohieration and (4) whether the cancer is multicentric or unicentric in omenn Two cases are reported

Because of the trabecular arrangement of the cells, the presence of capallary stroms, and the absence of problemation of the bile-duct enabelium the carcinoma in the first case was classed a hepatoma

Currhous was not present in the liver tissue, and there was no hyperplana of the liver cells. In spate of numerous points t which the cancer cells greabetween parallel capillaries and were in direct contunnty with the liver-cell trabecule, there were no transitions between hver cells and cancer cells

The growth was unscentrac in origin the primary focus being in the right labe, from whence it grew by direct extension without using the portal system as a pathway

The pacture in the second case case of secondary

carcinoma of the liver was very similar t that observed in the first case II A M KAKET MD Studies in Gall-Bladder Pathology Bord W

Brat J Surg 923 2, 237

Boyd states that in the past too much ttention has been paid to the study of calcull and not enough to the study of the gall bladder stack! The investsgation of the pathology of the gall blackler was carned out on material freshly brought from the operating room. The best results were obtained tudy of frozen sections after fixation in from formalin and subsequent study of paraffin sec

A topey material was found to be entirely twelves even when the twoe wa studged as early as three hours liter death

B) means of the dissecting microscope it was found that in marked cases of strawberry gall bludder the graceful, frigile, gossamer folds of raucous are completely litered in appe rance being loaded down by the dense spaque broad much as a delicate birch tree might be ighed down by a lord of snow This yellow ispoid material in the stranberry gall bladder is soluble in alcohol, eiber and chloroform and I has red with wharly h R III and black the otack old T determine the ture of the lipoid material more accurately sections ere stained by Lorrai Smith All blue alphate method. The conclusion was reached that the lipoul in the mucous was not pentral fat but whethe it consisted of fatty acids or cholesterol was undecoded

I nder the polarizing microscope newly formed extern of cholesterol were found umular in appea sace t the bood material of the stranberry gall bladder By using Moleschott alphanc and reaction for cholesterol, it was found that the keood the chemical and physical reactions of cholesterol exter T determine the amount of broad in the grill bledder mucom equal part of almolut alcohol and ether ere used 1 to late extractor The mucous of t normal gall bladders outsured tt and I to per cent of cholesterol by weight The percentage of bolesterol by eight in six stra berry gall bladders varied bet een 14 60 nd 60 54 per cent the average being 47 46 per cent

The Imoul deposit may be found distributed in any of the co is and I any depth it most the sarf ce epithe

common place of occurrence lum od the stroma of the illi

Boyd at testhat and the deposition of irpost has been produced experimentally in an animal it all be impossible t tate with certainty the factors such govern the formation of such deposits. He believes that the most probable factor is indam-

mation. T determine the harseter and distribution of the broad from the standpoint of comparative anatomy the gall bi dders of aftern dogs and ave cat were examined In dogs the broad as present in the mucous es is case but al a onimed t the conthelium the lurgest deposits being to the ting of the all In the cats, the board as present in scanty amount in t and absent in three No

lipord as found in the gall bladder of the cow rabbit guinea pag, or from In order t determine the f netwo of the gall bladder the bdomen of dog was opened a fine needle introduced into the gall bladder and fter there all of the bile an equal amount of per

cent from ammonium estrate. As rajected. A series of dogs was used and after any g persons of time the gall bladder a removed and placed m fixative containing potamium ferrocynaude after so short twee as half an hour there ere

numerous blue grassiles in the epithelial relia and to a less extent in the strooms of the vill A study of cholesterol absorption was incon-

dashe W E Sturmen Wh

Notionaley J T Cholelithiasis; Cholecystectury; Operative Injury t the Valo Bile Decti Primary End-to-End Suture: Peacecrathe Stricture of the Duct; Hepaticodusdensetsary; Recurrence of the Stricture; Second Deputicaduedenesterny Over Rubber Tube Swy Che ` त# का के∞

A grante 40 years of age was operated upon September 1 020 for stones in the rall bladder and cratic duct. A harmoust was placed on the cratic duct and then respoled at a derper level. The cystic duct was apparently free from the comme duct. Removal of the gall bladder as followed by grash of bale, and it was then poted that a portion of the common duct was included in the foreign An end t end suture was done over a T-tabe. Three weeks later the tube was removed, and five weeks after operation the fistula closed. Subsequently the patient became Jambdeed, and one year alter the first operation hepatacoduodenostomy as dow Su months later lamber again developed, and # M y 1922 second hepaticoduodenosions was performed. Since then the patient has been well-

This case illustrates the danger and consequences of operat a injury of the main bile duct in precedures about the region of the gall bladder over In the heads of those accustemed t dealing with the difficulties and espeneaced in prectua the problems of surgery in this field. As these are the orth) of note and comment because it sounds a warrang and traches valuable lesson on operatr s

ensur of the musty done

It is desirable that every attempt, successful or ansectemental, to repair or reconstruct the main bak duct be re period It is probable that many cases ha not been reported because the original surpcal f it a the operator' and the attempt to reher t the result was unsuccessful.

O CAR E. KAMERY MD

Keyes, A. B. Cholelithiasis, Cholecysticis, and Cholengith 1 3mg g 3,inn 1

I trakepatic stones are sektom seen t utopsy the distance of the laser from intestmal infection and the almost continuous flow of bile tradering

them less common than stones in the gall bladder Doct stones do not form in the docts hepatic duct towns are probably als) a due to sa fatra tystic duct and common duct hepatic source stones are usually derived from the gulf bladder or

to rare cases, from an intrahepatic source Stones in the gall-bladder generally arms there but may be extraherated in origin. These size varies from that of milet seed to that of small ben s

eng Their number ranges from one to 7,000 and their color from alabaster late light or dark sellow t green, brown or black Their shape may be spherical, oval or facetted. They comest of layers of cholesterm and bile pigment or calcium carbonate, or combination of all three They are rare in infancy and childhood and in tropical climates Their greatest frequency is after the fortieth year

Factors in the production of stones are () slowing f the bile due chiefly to narrowing of the duct. () ascending infection, and (3) excess choles

tenn in the bile The rall bladder usually contains dark green,

almost black, bile or pus

Conditions favoring the formatio of gall stones () external pressure by corsets, belts, et which causes kinking of the cystic duct and stag nation of the hile (s) prous causing kinks and bile stagnation, enous kinking and engorgement catarrbal gastro ententus papallitin or ascending common duct infection (3) chronic circulators carduc, and pulmonary disturbances causing ven ous engorgement (a) hurried irregula mech, over eating and drinking, poorly cooked lood sedentary habits, poor hyperic surroundings and (5) certain acute and subscute infections, such as typhoid fever gustro-enterups and its sequelze and catarrhal inflammation of the dwodenum "ith excending duct micction

The hypertrophied alls of recovered pall bladder to taining bile mucus and small stones may contract and completely empty t

Stones may remain in the gall bladder and ducts for years a thout causing symptoms, and may be found only by chance I haparotomy or utopay

In passing through inflammatory infiltrated ducts very small stones may cause violent pain. A small stone impacted in the cystic duct may cause colic lanous gastro intestinal renal, meteral, pan creatic, and ther intra bdominal conditions may be mutaken for gall stone cohe. The first pain may be due t perichelecystitis or a true pentionitis from extending miertion or perforating ulter inlent contractions of catarrhal hypertrophied gall bladder may cause bladder det pam

Stones may wander in common duct stenous with rall bladder hypertrophy and in catarrhal endo cholecystates, in bach there is large tale secretion In some cases they may pass through furule between the gall bladder and neighboring viscera They benefity do not wander from dilated incom pensated gall bladder or in cases with little bile and marked concentric hypertrophy of the gall bladder Extremely large stones do not wander Impacted stones may lead to intraperationical rupture of the gall bladder or cocta

The surpcal procedure is based on the inter pretation of macroscopi changes found t operation,

The appearance if the adjacent peritonsum th regard to mil mmatton, extidate and dhenous Sumple acute dilation of the normal gall bladder by fresh bile. This generally indicates sudden, recent acut tenosis or tresus of the common duct a th normally open cystic and hepatic ducts

Eccentric hypertrophy of the gall bladder This understes open cystic and hepatic ducts lle. and moderate common duct stenous f r a period of som tum

4 Icterus in gall bladder cases. This means obstruction t the common duct with incompensa-

tion of the gall bladder

g Reversal of the bile stream and ascending cholaturates. This occurs when there is hypertrophy of an injected gall bladder a th common duct abstruction

Simple atrophy of the gall-bladder This points to an early caterrial condition with narrow

ing of the cystic duct

7 Concentric hypertrophy a change which occurs in long standing moderate stenous of the common doct 8 The condition of the liver This is determined

by inspection and palpation, and if necessary by aspiration, smears, and cultures

o The contents and the character of the wall of the gall bladder

Hydrone cystadus usually results from simple cystic duct betruction due to stone or low-grade inflammation Empyems of the gall bladder armes from

acute ascending inflammation With excending common-duct infection there may be concomitant, escending pancreatic duct infectio A case of chancal pancreatitis may recover

after dramage of the gall bladder Dramage is more often indicated for a cholangate liver and for the paneress than for the gall-

bladder strelf. Hepatic, pancreatic, and gestine symptoms clear up following drainage Cholecystectomy should be done with great

bentancy Especially when there is stenous of the common duct, it allows the bale to drain only poorly through the already diseased bile ducts. moval of badly infected empyemic gall bladder may spread the injection

The author describes the technique i chole-

cystostomy as follows

Examine the common duct wall of the gallbladder with hot wet pads aspirate open at the per remove all the bale mucus, pus, and stones from the gall bladder and cystic duct explore the mterior of the gall bladder with the finger for stones and diverticula pack the gall bladder t

thin 15 in of the top with iodoform gauge and extend the end of the game out through rubber tube dram fastened int the gall bladder with a double pursestring suture suture the gall bladder to the anterior parietal peritoneum and dose the abdominal wound around the tube

A permanent fistula will not result. Re formed

stones can be easily removed through the anchored gall bladder Do not drop the gall-bladder and tube back into the abdominal cavity as this permits an overflow of bile and results in adhenous which may complicate later operative treatment

Cholamatic infections may ascend from catarrial common duct, cystic-duct, and sall blacker infection. possibly with the form two of multiple intra bepatic foci or absceries. In some cases they may cause death. The author go es the histories of fire such cases of cholanatus

TER C T REET UD

Oliver S F The Etiology of Gati-Stones, J Lob to Clar Med on me a

It has been noted that gall-stones or more common he owen than in men According to one investigator, infection and tage tion of bile are the probable steps in gall-stone formation, a absorption of alkalore subst aces taking place ith the production of an acid bile which leads to catarrh with an outnouting of renew in thich mement and salt are precaptated blones may be found t my point in the bility presides the other states that he ha pener encous terred an acad bale and that if the explanation are correct ould find gall stores composed largely of tale salt rases of mill topes reported to this trick outs. doct obstruction was not its needed and infew cases there was to common-duct electraction with frundere

The effice was ramined prior t examination and the urner ad bule examined daily for fourteen t shateen days after operation. All of the cases showed an locrease in bile salt and prement in the wrine before operation I some cases there was an enormous mereuse in bels salts at lout the normal coloring matt of the bile hile in other cases the pagment predominated to the exchruon of bile 121

At operation the bife in each case #2 Aseptically collected and tested for it pours constituent Openistative determinations of the bile salt were made by treating the bile with about 1 skrohol and then Alternar it I cases of bolcktin us the balesalt content was found to range from a of t per cent t 14 of a per cent Cases of catarrial hole cratitus relatively few in manher were seen by the

ther in which the bile salt content of the bile was low These ere treated as potential gull stone

cases and responded. If to cholecystostomy I ollow up operation the bile ad stane were duly collected and tested. After draining of the gall bludder and the removal of the stones, the uruse tended t show I sh decreases in bile sult and the lule showen corresponding increues. The removal of the obstruction dal not lead t an an mediat return to normal function on the part of the li er I some cases norm | limits were reached by the urine in an to eight day and by the like in ten t fourteen days thout the fourth day after operation and for several days thereafter there was an pacrease in the ures content of the urine and decrease in its bile-salt content Particular) noted by the author was the fact th t the write secretion acemed to run almost p rallel 1th the secretion of bule

By the findings reported herein it is climb indicated that in such cases the bile sait convex of the blood is increased. An increased contest of cholesterm in the blood, together with decrease in the bule salt content of the bile to on the form tion of gall-stones. Bile obtained a portation from cases of gall stoors, after he me been experien chemically as placed is test tobes veiled and allowed t stand for varying periods of time her mal bile wa also studied The specimens of his which were deficient in bile salt showed a denoted of cholesterin in the hottom of the tube Corman lak remained free from cholesterm deposits

From these observations at the author that in cases of gall-stones and obstructure faint or disturbance | bile salt secretion and excretion manifested by ancrease in bile calls a the arms and blood and decrease to the bile-tale ontent of the bile. A a result of the deforms w the bile-salt contest of the bile cholestern test to with out of solution. If the condition is not took died early gull stones form the end result of the physico-chemical disturbance. Therefore cost w this character should be treated to restore the bac unne nd blood t their norand physico-cherical

Colors, 11. The Call Madder Spectrally Considered Y let M J b Med Rec + 1 tome or

Gall-stones are found at o per cent of automore on adults but in 95 per cent of these cases they but cassed no symptoms. The most constant symptom H PILL IN the grill bladder region

The I my is often a source of error A portant finding in 40 per cent of the cases is men. The dodraul tube and bucket are of great subtance be saveration and in the \ ray examination Chernel eximination of the blood is of value. A high choiceterm content may indicate stones. Palmation a important as it reveals regulity and tresterees. A

carefully taken butory is excet il The wither discusses the pathology in detail and cales cases (lightrat the different types Influe mation may be beent in ceses of stones, but more often is present The gall bladder may be described below the umbilious. In hydrops no bde is present The gall bladder may be so shrunken that it casses he found Adhereous sessing the gull bladder to the surrounding organs may cause severe symptoms Cancer is usually secondary. If it is printary gall stones ire associated with it. Gall stones was 1989 ture int any of the surrounding organs. Pylephia betwee nemality fatal. These cases nearly in value kescopresss of bout 4 000 and high ferer Jun der u not contra inducation t operation

The majority of cases with indefinit ayantour and all postoperative cases are medical cases. Color is the most common indication for operation

Hemorrhage and shock are not moused in an complicated cases Stones may recur Infection of the wound may cause postoperative berms but the can be easily remedied by operation

Gall bladder conditions may be associated with ther pathologic conditions, such as apprendents and fibronyoma. The attacks I color are irrequently gravated by pregnancy and may disappear at term. A cholecystectomy may be done authout interrupting the pregnancy. Jaundee is as often due t a surpeal as a medial coordinom.

In uncomplicated cases the prognosis is as good

se that f appendicutes

In conclusion the author states that when the diagnosis of gall stones is established operation should be performed early to prevent serious complexations.

Maria Rosur MD

Wairel Nissentren, P. Primary Glosure of the Abdorminal Well in Operations on the Bullary Ducts, with Special Consideration of Simul tapsoos Operations on the Stomach and Ducdenum (Urber den primaren Sauchácharver rakins he non Operations as den Gallarvergen rakins he non Operations as den Gallarvergen rakins he not Operations as den Gallarvergen Deutscher Deutscher (1997). And J. M. Cher 1997, CC, 347

The usual technique for cholerystectomy and drausage of the common bile duct as practized in you Euclidery's clane is described. The author warsa against the use of needle lagatures in the region of the cysic artery in one case in which these were used an liptury of the right branch of the beptits artery was overlooked and led to fatto accordant hamosthage. The suitining if flar of fatton the bed of flashle here is found of visible A draum at any mitrodecod next to the true if gaues had over the stump of the crisic duct or next to the draum of the common bile duct.

During the last tw years, operation was per-formed in 148 cases of disease 1 the bihary region In 19 cholecystectomy was done alone, and in seventeen there were im Itaneous operations on the stomach and duodenum. Of the O CANCEL BIX ended in death four deaths being due to post operative pentonitis, one t postoperative hemorhage, and one to embolum and pneumonus. These losses were due to tampon dramage except in one case in which cholepentoneum follo ed the removal of so called regenerated gall bladder with primary closure of the abdomen. In all of the four cases the biliary pent nits impnated in the bed if the liver. The heation on the cyatic duct failed to hold Rupture of subcapsular beliany d cts in enterogenous cholangutas must also be consid red Bile entered the abdominal cavity in compdetable number of cases even when the abdomen was closed primarily Transplanted omentum gave good imper meability Probing f the common bile duct and choledochotomy have been done less frequently than formerly but four transduodenal choledochot omics were successful. Primary closure of th abdominal wall was done fifteen times with good final results

The advantages of primary closure are entiner ted. The thor examined the aspirated gall

bladder contents during the operation sevaral portions of the last part of the game strip removed after several days, and the last part of the introduced drain. Even when the gall-bladder or tents were infected, the most strips were free from barteria. Streptococco were cultured from strips removed on the math day only in one case in which a suppurating gall-bladder was removed. Strip draining as therefore no longer used as a routine,

but cases fo primary closure are care! By selected Of the seventeen cases in which a simultaneous restro intestinal operation was performed the gall bladder was unexpectedly found diseased in four teen Primary closure was done in five, and strips dram were introduced in twelve cases. On end the bases of the results in this series the uthor co cludes that gastro intestinal operations should not he complicated by cholecystectomy unnecessarily but f a latent diseased gall bladder changed by non inflammatory conditions must be extirpated, primary closure of the abdomen is indicated. If a senomiy damaged gall bladder must be exti nated gastro intestinal operation is dangerous if the anastomoung suture remains in co tact with the dram (Billroth I) It is therefore advisable t use the Billroth II procedure and m addition t cover the layer of sutures in the scross lying nes Tensson on the sutures used in the the dram B broth I technique is also sometimes dangerous Primary closure of the abdome is f value in amultaneous operations on the gastro-intestinal tract and gall bladder Screwmer (Z)

Morley J Congenital Cyst of the Common Bile

Duct with Report of Tw Cases Bril J Surg

Congenital cyst of the common bile duct is rare condition. Morley was able to collect only thirty nine cases from the literature. This umber be dds two cases of his ore.

The anatomical picture is constant, consisting of cystic dilutation of the upper portion of the commo bile duct which enlarges slowly and progres avely much like a seconlar ancuram. The hepatic and cystic ducts may open into the cut generately The intrapancreatic and intramural portions of the common duct are not involved in the cyrtic dulita tion Wherever investigated, the lower end of the common duct has been found patent and usually in the medial wall of the cyst. It would appear that distention of the cyst by hile causes valvular obstruction in the common duct it the point where at a suddenly reduced to its normal cabber. Such an assumption would explain the jaundice which is so frequently associated with the condition and m often intermittent, remains being amounted with diminution in the size f the cyst. The saccular nature of the dilatation, with normal ducts bove and below the sac, forms a striking contrast t the diffuse dilatation f the bile ducts seen as second my result of gall atone obstructio or compression of the commo duct by panereatic tumor

When first observed these cysts are usually about the size of a coccumut. In the case reported by Modey there was marked obstruction of the third part of the deodenum by compression behind the superior mesenteric vessels, due to the downward thrust of the cyst on the small intestine and the most of the mesentery. Up t this point the disoletium was decadedly dilated, and beyond, it was contracted The author believes that this deodenal ileus may account for the gastric distress recurring an hour or so after the meestion of food

The gall bladder has generally been found more or less empty but sometimes contains sufficient bale to form small namable swelling immediately

above the large crat

The cyst wall varies in thickness in some cases it is very thin while in others it is thick, tough, and opaque. In Morley's case there was no mucons membrane hining and the wall was made up of dense fibrous tassue with a layer of endotkehum on the outer surface where the peritoneum was at tached

The condition first governs between the arm of 14 and so years, but in the cases it as present t birth Of the forty-one recorded cases, \$8 per cent were those of females Embryological development of the liver and bale ducts throws no hight on the causative factors. Budde suggests that these cysts are due t. pancreatic rests in the walls of the common duct, the cells of which break down and thus originate the dilatation. There appears to be no evidence to warrant this conclusion

The climical manifestations consist of attacks of shdominal near essented with tumor and usually some saundice. The attacks recur it irregular in tervals and vary from a sensation of fullness or acute indirection about half bour after eating to less frequent ttacks of more severe colocky

The tumor varies greatly in size. It may become so large as to fill almost the entire abdomen with the exception of the picht shac form. The size may change from time t time, but tends to become

eradually larger Trundice is present in most cases. I Morley's case it was shown by only a slight tinging of the

sclerm for abort time

factors have combined to make the mor takey very high. The first is delay of treatment until the patient cannot substand a major opera tion. The second is failure on the part of the operator. to recognize the condition and t adopt the proper

operative procedute Temporary dramage of the cyst may be dopted as a pallestive measure if the patient condition is entical However primary choledochoduodenos tomy without dramage would appear to be the operation of choice whenever the patient condition permits. In cases demanding only tempor ary drainage duct-intestine nestomore should be done as soon as possible

McMicros Harcourt M D

Rone, P and McVisseer P D A Method for the Permanent Sterile Drainage of Intra-Alde-minal Ducts on Applied to the Common Duct J Erper Med tot Extru.

The many attempts to maintain rubber takes a connection with the common ducts of aumals to collect bile over considerable periods of tane law been so uniformly unspecessful as to warrant the belief that such tubes will always come away than a few days. In one of the authors recent cases, in which longer portion of the take than your was left within the peritoneal cavity the tabe as found firmly fixed in place after period of searly two weeks and there was no sign of excepding marting with destruction of the duct wall next to the causals such as had terminated previous observations. The tube was thinly but closely sheathed in omention buch met and somed the common duct, the taket collection poeratus being covered Elsewhere a

the peritonesi cavity there were no adhesious Actume on the suggestion presented the authors developed a method hereby the total bile can be collected in a sterile stat day after day certaily for a period of months and probably for years. Then experiments were performed on dogs. A long dramage tube was meeted bet een the common duct and the opening in the abdominal all. The tubes enployed ere pluble sear the cannula. Use was made also of curved glass tube 1th the soft black rubber tubing connecting with the cannula on one land, and piece of duodenal tubing which was to pass through

the abdominal all on the other By the method described lale was collected from seventeen dogs for periods ranging up to three

The following conclusion is dra in The sheath of omentum which forms about long rubber tube left within the pertioneal cavity proyales such an efficient burner to ascending infection that the tube can be employed for the permanent drainage of the common duct, whereas a short tabe

will come way after a few days George E Bencart M.D.

Mann, F.C. ad Glordano, A.S. The Bile Factor in Pancreatitis. inch Serr . 3. 71.

The authors have investigated the bile factor in puncreatitis from its chief aspects the anatomical and the experimental

anatomical mechanisms hav been see grated whereby hile can be persed int the pas created duct. One as based on the possibility that are obstruction could occur at the sait of the commen bule duct so as t convert the tw ducts int con transon channel. The relationship of the common bile duct to the pancreatic duct and their mode of entrance into the doodcaum in man were studied in order to determine the percentage of instances in which there ould be an anatomical bears for the hypothesis mentioned. The data proved conclusively that the number of sectances in Inch the austomical arrangement in the relationship of the two dacts would permit bile to pass into the pancreatic duct is en small The other possibility that the sphincter at the duodenal end of the common bile duct could contract and convert the two ducts into continuous channel, has also been investigated The data show that in most instances in man the sphineter is located at a point where contraction will close both ducts and will not convert them into a continuous channel, but in very small percentage of instances a small bundle of muscle fibers is found in a position where possibly it could convert the continuous channel Therefore two ducts int anatomical basis for the possibility while there is of onverting the two ducts into a continuous chan nel, either by mechanical obstruction or the action of a sphincter muscle the percentage of instances in

which this could occur is very small

Three lines of investigation were followed:

Experiments: estimat the possible pressure
the existing physiological mechanism could carrit to
meet bile int. the pancreatic duct. This pressure
was found to be relatively low.

Sterile bile was mjected int the pancreation duct at the maximum pressure that could occur in the common bile duct. This did not cause typical hamorrhagic pancreatitis, although definit damage of the pancreas sometimes occurred.

3 The common bile duct of goets (a species in which the main pancreatic duct opens int the common bile duct) was ligated. This did not produce

ocut pancreatitus

The investigation has proved that there is an anatomical and physiological basis for the theory that reflex of bile may occur in the pancreatic duct The evidence indicates that such be the cause of chronic pancreatitis. The number of instances in buch the necessary anatomical conditions are present for this occurrence is very small. The possibility of bringing into play a physiological mechanism which can infiltrate the pancreas with sterile bile t an extent t produce cute pancreatitis is operationable. Granted that the necessary anatomical physiological and pathological factors are present and that the reflux of sterile bile under such conditions causes pancreatitis, such a cause for the condition must be very rare, few cases being on record

A reflux of bile could not have been the cause in any of the cases of actus pancerat us reported by the enthors. Attention is called to the fact that say mechasims which will also obstruct the flow of pancerate duct will also obstruct the flow of pancerate duct will also obstruct the flow of pancerate pure Funthermore to be has been found in the pancerate duct in the basence of cure pain restitut in all a cases of panceratitis the pathologist should eximune the relationship of the values to the doubtemen and to each other the determine

bether it is anatomically possible for bile to pass the transition of the transition of the top pass that the passerestic d ct. The data included in this article prove conclusively that w must look else where for the explanation f the cause of most cases of pancrestitis

Jones, D. F. Acut Pancreatitis Surg Cl. 1 4

9 0. 5
Pancreatitis associated with infections of the labary tract is an inflammation. If the Interstitutal tissues due to infection Frequently the infection is carried through the lymphatics of the bilary system. Acts pancreatic necrois is a necrois of the personal per

In 855 Bernard caused acute pancreatic necro are by injecting bile and sweet oil into the pan creatic duct. In so Opie described a case of acute hemorrhagic pancreatitis in which a gall stone was mpacted in the papilla of Vater so that the common duct was blocked and bil as regurantated into the pancreatic duct. Open found that the anatomical rrangement of the ducts favors this condition in thirty of 100 persons, and Judd and Mann demonstrated such an arrangement in nine of 200 persons. Infected or changed bile will cause Archibeld showed that the erester necrosus sphincter of Odds of the papilla of Vater will resist a present of 400 to 700 mm of water Judd and Mann found that the contraction of the gall-bladder adds a pressure of only 50 mm of bile. The violent muscular effort of retching increases the pressure in the bilary system to 500 and 500 mm of bile

Pancreatitis has been found in 23 8 t 50 per cent f the cases of cholelthiasis. Gall stones were found in 50 per cent of forty two cases of pan creatic becross in the Massachusetts General Hospital

The author reviews fifty six cases of pancreatic necrosis (forty two from the Massachusetts General

Hospital and fourteen of his own)

The condition is characterized by sadden severe registric pain associated with shock of greater or less intensity depending upon the extent of the lesson. After the first tack the pun may be felt also in the back. The patient becomes realless Names and vomiting to presistent and batipation is greater.

The prize is oot to often too tayed and too small t count. The temperature is subnormal for the first few hours, but gradually nest t not degrees F. The patient becomes cyanotic role degrees F. The patient becomes cyanotic role is the patient becomes contained to the bedown contains fluid and is very slightly tender all over. Definite localized tenderness catedia from the gill bladder region towards extends from the gill bladder region towards the left, t times being more marked to the left file spine. There may be tenderness also in the left contovertebral angle due t invol ement of the tail of the pascense.

The results of various methods of treatment in the fifty-six cases of acute principatic necrosis are summarized as follows.

| Operations | 3 | , | 3 | 1 | ì |
|----------------------------------|-------|----|-----|-----|------|
| No operation | _ | - | | | |
| No discovers or designate of al- | | | | | |
| deminal carter | | 34 | | | |
| Descript of punctions including | 1 | | 1 1 | | |
| A) CONTRACT | _ | ** | | | |
| Drawings of progress victions | | | ٠, | • | _ |
| aleren . | | | | | |
| Deamage of alvoces above | _ | ٠, | | | 1 2 |
| Dramman of bilary system | - 1 | | 1 1 | | - 77 |
| Depleter of belong system and | ر د ا | | | , ! | |
| Description | | | , , | | l |
| Total metrality | 1 | | 1 | 3 1 | ı f |
| Total Bertaley and Including | | | | . 1 | - |
| care of places | | | ' 1 | | ſ., |
| | | | | | |

The author reports five cases Is four gall stones were found. There was one destit, that of a patient with stone in the impalla of vater in four cases the pass occurred sider a beavy meal. In all of the cases the passerers and the passerers capacite were draised through the gratrobepate conceilment in addition choicey-stoateney and draised through the gratrobepate conceilment in addition choicey-stoateney and draised in the case of the case the pulse and temperature (ell promotely the case the pulse and temperature (ell promotely the case of the case the pulse and temperature (ell promotely the case of the case the pulse and temperature (ell promotely the case of the case the pulse and temperature (ell promotely the case of the case the pulse and temperature (ell promotely the case of the case the pulse and temperature (ell promotely the case of the case the pulse and temperature (ell promotely the case of the case the pulse and temperature (ell promotely the case of the case the pulse and temperature (ell promotely the case of the case the pulse and temperature (ell promotely the case of the case the pulse and temperature (ell promotely the case of the case the pulse and temperature (ell promotely the case of the case the pulse of the case of th

Drausse of the latty patients the repeals of the patients agree the best result. The other advises operation under novecame of grantenthems as one as the patients a condition will permit it. The ideal operation is drausse of the common decit the futty parents capatile and the patients of the patients of the common dont canase to drathed easily checked the patients of the patients

One patient who was operated upon seven yours ago still sears a tube because of deckstage of clear finish which possibly comes from a pancreathe cyst. The fluid is not pancreathe secretion. For the first time this patient's urne now contains sager.

WALTER C BUREN M D

Righy H. M. Acute Hamsorrhagic Pancrestitis Record Worm to Pancrestic Duct. Brit J. Surg. 0.1 5.4 9

The author reports the case of woman so verm of ge who was seried a fix audies server pairs in the abdomen and back. The pairs is expected intenses in the lower abdomen. Vocating occurred frequently and the bowth field not more for two the following day her conditions was grave. The pulse was no, small, and irrepliar. Respiration were not the influence of the munitar, and the temperature was the manufacture of the munitary and the temperature.

was 100 degrees F. There as no history of gastrac or menstrual disturbance. The abdominal all was rigid. Tenderness was most marked over the lower part of the abdomen.

Operation revealed in the peritoonal carriy free from which was redden and odorless A condition which was redden and odorless A condition with the condition as made in the tripper abdomes. It is become the season and the pancress ared, soft, and greatly resolven Gauss tampons were passed for, to the surface of the pancress. The gall-bladder showed no disease. The pattent deed the best is enough 4th pestimaterin examination beamon these forcers and a record sorm a redged in the condition of the control of the death of Wireless and the standed and there was some didation of the control of the death of the death

Kraul, L. Necrouls of the Pancross. A Case of Total Sequestration. (Eas Beztra; zer kenazuss der Pankrossachross: Ita Fall totaler Sepostration) Wess His B cluster. 9 xxxv 437

A man 46 years of no who had antifered for keep time with lambage and crampang in the streach ultimately developed stone code and became paindeed. After a period of three months discriming tensor the size of an infant, head developed in the expensions. As there was also high temperature a diagnosis of abscess of the left lobe of the liver was made.

At operation, well-encapsulated retropentoneal cyst containing liter of odorless poss as resolved from the pancreas. The pancreas showed run erous sequentia throughout, measured 5 cm in length, and weighed 40 gm. The cyst contrains included for pite and distraits ferments. The patient

recovered.

After the operation the assumitation of food as aided by the administration of paneress. Transmett expressions of apperturation of paneress and appearing the appearing the

Novia Partial Obstruction of the Pancreatic Duct by Round Worms Bril J Surg 9 3 4

The presence of womes in the pascreate duct is rare. In eastern countries the author has found them free in the personnel cavity in cases of perforations of the intestines. I one instance obstruction was caused by beauth of fifty sine orms. The following case is cated.

The patient was girl yours of age who, eight days before her dimension t the heaptal was seized with severe colorly pain in the abdonces and rounted once. The severe symptoms then subsided but delli pain in the epipatrium permated Semilar ttaking of pain occurred tirregular inter-ak-

On the patient admission to the hospital her present condition was good At examination an incident sender sredling was found in the epiguation of the correlpton text, serve somewhat patient for more was normal. After observation for several days, during which time there were attacks of pain exembing renal or bilary color, a laparatomy was performed. The atomach, gall-bladder and be presented as the particles was found greatly enlarged. An unance was made in the paccess are from the lead to its tail. When the paccess me the particles was a server of the paccess was found duct was opened full-sized hung round women as dead one were removed. The pancreane incasion was closed the interrupted outres and the about was closed the interrupted outress and the about was closed the interrupted outress and the sale was closed the interrupted outress and the sale that pancreas. Convidence was unrewratiful the pancreas. Convidence was unrewratiful the pancreas. Convidence was unrewratiful.

I A H MACOUR MD

Orskow, I. I. Surjesy of the Pantreas. The Disjposts and Treatment of Primary Carchinens of the Pantreas, Particularly of the Body and Till of the Gland (Zer Churpe des Praises Zer Desposit), and Thereje des prinsarro Pan Irvescammon audienceder des Austreas of Schwaptelies der Druce). Her is Chir. jegualdate o. 3, 3

The author has had three opportunities 1 operate on primary carcinoma of the pancress. All I the three timous were situated in the body (not in the head) of the gland. Every case was characterized by palpable timore and ery severe, colkey pains in the pagastrium independent of the taking of food Case. The patient was a man 55 years old who

gs. a hastory of pain for four months, an immobile modular hard tumor was pulpated in the registrum. Chemical estimation of the stomach contents was negative. Unmahaja aboved per cut signs: Slight punder was percent. A diagnoss of cancer of the paneries was made. At operation the chaptors was confirmed. The timpor was untered in the body of the gland and importable. Death occurred four ind one half weeks after the opera-

Case The patient was a woman 55 years old be had had exepastive pain for t months and attacks of diarrhers and vomiting. When seen by the thor she showed pronounced cachetus but no paunder. A hard, immobile timer was relieved

jaundice A hard, immobile tumor was polipated the regule of the stomach. The chinical diagnosis was crumoma of the transverse colon. At exploratory figurationsy an inoperable carcinoma of the punctures was found. Death occurred from exhaustion one and one-half months later.

Case 3 a particularly interesting because t was the first case in hich parcentaction for carrinoms as nectually result of long duration the patient somm of 90 ears is still hang time years after the operation. Treatment was sought because of point in the expansition of mmy years standing which was titributed to an old peptic ulers a them pastinis 1 June 0 the thor discovered ery mobile in d times of rapid growth in the left hypothondrum. There was no plycomian. The

patient was examined by Koerte, Bier, Israel and Kuttner. The retroperatorial site of the tumor was determined by means of the X-ray and the diagnosis of tumor of the pancreas was made by Koerte.

Annl 15 0.5 laparotony was performed by the uthor A hard notolar mobile tumor the size of two first, was discovered behind the storage of two first, was discovered behind the storage of the size of two first, was discovered behind the storage of the size of

F r a short time during the behing f the wound there were bloody stools, but thereafter recovery, was good. The microscopic diagnosis was cylindrical cell carmons. When the patient left the bopital on M y 8 she was instructed 1 take a pain creatic ferment. Without this preparation she 1 ways experienced disjective disturbances, but been she continued to tak it the was ble to concer mixed.

duct a th no ill effects

Up to 9 8 her conduton remained good but using in a carrage or in a raise's train caused severe pain in the upper abdonce. In November 9 8, the author discovered a hard tumor the size of pea in the left clayside. Soon after this the petropt left to make her home in Austra, where she is at the present time. The tumor if the clayside which has grown rapidly be being treated with the rocation may be be latest report dated June 4 or family favorable as egand her general condition, and states that the tumor of the classical condition, and states that the tumor of the classical condition and consistent decreased in size. The patie t is not able to get along a though the patients centre and control and constituently abdon.

mai pain

In a review of the literature on the diagnosis and
treatment i primary cancer of the pancreas the
author brings out the following important f cts

The most constant symptom is severe pain in the expansion of conding it mind tabetic transition of the expansion of the policies mobile sometimes immobile sometimes to the expansion of the one-times mobile sometimes of the expansion of the one-times mobile sometimes of the expansion of the one-times of the expansion of the expa

Operative treatment of tumors of the pancreas has not been very recreasful According t Koerie (20) the literature reports only stateen resections and extrapations of tumors if the pancreas with an operative cures koerte one case (5) tacknown of the pancreas remained cured for even years after the entireption Prison (2).

Esstman, J. R. A Safe Method for Desirage of I tra-Abdominal Abscesses. J Indiana Stev II 1# 9 J x1. 6

Fasturan describes a method for the draining of deep seated bdominal baces-es through berson

The incision is marke down to the perstoneum and the pentoneum i then carefully peckel of tract being thus made t the becess outside of the peritoome

If the bacres does not open spontaneously it may be opened safely after adhesions have been formed around the gause by passing long dressing forcers int it, through the drainage tube

cause rupture

PROTE R. TALBOT M.D.

SURGERY OF THE EXTREMITIES

CONDITIONS OF THE BOXES, IGINTS. MUSCLES, TENDONS, ETC.

Bleedgood J C. The Disgness and Treatment of Bone Lesions A Brief Summary of the Salient Features. Am J Resignal 0.1

This article go es brieff the salient facts of lected by the author from over 1,000 records of bone lesions. The review sacindes only cases of t ber culous and morenic estromy clitic bock suggest periosteri or central maligna t lesson clinically and in the roenternorram

With regard t the diagnosis from the roenters tandroint stress is laid upon the importance of unining the corresponding bone diseased bone to word mistaking anomalies for disease After Juries rocutern examinations revaluable to show not ble unsuspected fractures nd to reveal pre existing ourcons lesson. The roentgenogram is also a record for comparison if the traum excites benign or malignant pathologic process. When the roentgen ex musation reveals one lesion it is all t examine all the other hones t determine better there re others This may erre aluable information in differentiating between primary sarcoma and such conditions as metast tic

curcisoms, m Itiple styrioms multiple bone cy ts, d chondross. The demonstration of multiple exectores excludes in hen nes. Roentgen instions of the chert should be routine procedure in cases of bone lessons in order that early metastases may be discovered. The discovery of polsecurity tuberculous may be suggest ld determining the tire of doubtful bone lesson

Palnation gives considerable information. When the periorical bone form tion is distinctly bony m lum per la improbable. Il ben a soft part tumor bout the bone is palpated and the roentgenogram. shows It to be composed only purt ally of new perf outest bone there is definit evidence that the levon is periorical or soft part leson with secondary rand ement of bone

Spindle haped persoated growths surrounding the bone which the older textbooks and literature at ted ere pathogramonic of arcount, the withor not found pathognomonic of this condition Perforation and destruction of the hone shell is not indicat of miligranity Calcifed areas in the

soft rarts outside the arrol ed bone and a deflarte clear area between them and the hone are suggestive of tuberculous and grunst surcome

If it is not thought advisable to open the absence

at this time, the tract is loosely packed with grans

and a tube inserted in contact with the abscess

wall dependence being placed on chemotaru to

The ch gnosis of bone lessons from the rountgeno gram alone is gray mistalt. The clinical herion, and other laboratory examinations, such as the Hassermann test, a complete blood extraoration. an examination of the arms for Bence Jones bodies, and a search for foci of infection are of great po-

Portance. When the roentgenogram show an evident peresterl lesion and the Wasserman test is negritor at least one dose of intravenous harsan should be given. The thor has had four cases in which this procedure revalted in rapid improvement and permanent cure

As regards the localization of the lesson certain generalizations are possible. In recent tudy of all the central and personneal lemons of the phalanges ungle example of central surcoma of phalan

and no case of periorical surcom was found. Of the central lessons of the lower end of the radius go per cent are guat ell tumors. Personteal and cratral lesions of the metacarpal, metataraal and tarnal bones re ery rarel mabraset up t the present time no lesion of carpal bone not due t inflammation (usually t berculous) has been found

If the roratgen examin tion show central lesson ith definit hone shell and ith or without fricture and no extra-overous wift part keen if pulpation reveals nothing and if the mitent is under 5 cars of age 1 is ery probable that the condition is bone to t. The next possi bibty a the grant cell tomor rarely ery few matances, t berculous Opera tion is not indicated it once repetially ben there is pathologic fracture. The fracture usually cures the bone crist and subsequent roentgenograms. If reveal rapid osufication not only of the fracture but also of the central area of destruction. When rapid swalcation does not show operation is indicated it once Operation all ha ten the healing of the hone cyst and is the best treatment for the grunt call tensor or loodroma. When the rocatgeoogram abon no fracture operation promuss more rapid and permanent overfication if the lesson proves t be bone to t ad is the best treatment for the guart cell tenor and chondroma

If the patient is over 5 years of age and the contemporary above a central leason with a definite bony shell, with or without fracture, nothing at the punch years year, and the capacity of the period of frequency of central base leasons after the age of it years as afflows being gast cell tumor the recent and the old unhealed bone ogs surcoma, thoularms years are not present and the old unhealed bone ogs surcoma, thoularms years.

The author' experience t date seems to show that reentiers and radium treatment cannot be asported to affect the pathologic process through a hone shell, and that radiation is employed largely for conditions in which it is nother necessary soo

valuable

As reports the method of attaching the single control bone lesson, Bloodgood tates that the purpose of operation should be to remove and destroy the pathologic times within the bone shell by a technique which will prevent, as far as possible, the seplantation of temor tissue into the soft part. This is best done by thermal and chemical control times to be the same in probably across, the simplestation of radium into the cavity and post-operative radium or resease treatment re-advisable Immediat bone transplantation into large cavities has been unifavorable in the suther's experience except in bone cyst, but in this condition it is not recreasily.

A cure of central sarcona is biamed after ample tation in less than per cent of the cases. Because of this fact and because it is the rare central lesson and often difficult to differentiate from variants of the bone cyrt and the gant-cell tumor the treat must describe doesn's positistic when there is almost describe doesn's positistic when there is alcrete when the gross presence at operation and the increasing performance at operation and the increasing performance at the contraction of the con-

The problem attrongy singles farcons. The problem of diagnoses and the plan I tracks as the problem of the prob

Up to the present on the three bottoms of the color by permanent come attaining to those only by permanent come attaining to the color by permanent come attaining to the color by permanent became the control by the color became to control became the control became the control became the color b

R sent experience has demonstrated that the number of benign personnel lemons if single bones resembling personnel surcome in the rountgeno-

gram and clinically is increasing. As cures of periodical surcomats are so inferigent even ofter amputation and is the possibility of error is still great, imputation should be considered inly when all other measures have fueld. Especially in case of transmate and infections osailying periodicity difficult to differentiate of the control of the cont

Wegisu The Traumatic New Formation of Bone Myseltis Osefficans and Parcetral Bone Cysts (Ueber traumatiche Knobeanenbideng Myontic centican und parotiale Knobeanenstatu). Best

His Chur 913, CRXVI, 43

On the basis of the findings in four cases the author attempted t determine () whether the source of origin of the confication is the personteum or the muscle connective turne, () what conditions to the confication, and (3) whether the final result is a true new formation, an inflammatory process, or a degeneration

In the first of the four cases there was formation of bose within the muscle after a chemical injury due to salvarsan and an efficient of blood into thissnes. The injury did not affect the percentage of the humerus in this case. It may rate not so as to cause the pencitation of scall speces of periodicism to cause the pencitation of scall speces of periodicism therefore must have been the muscle connective inside which is the pencitation of the fibers and transition stages to rewly if much spongy bone.

The second and third cases aboved very dvanced

changes in close relationship to the booe processer. The fact that considerable area of the femur was imped of persosteum indicated that the persosteum was factor in the new formation of bone. On the other hand, as the microscopic and macroscopic indusps were very similar to those observed in the first case, the miscle connecture tissue may have been in part responsible.

The fourth cise was simils to Cases a and 3. The striking feature in this imstance was the fact that the confliction was found far from any normal horse and in the center of a peculiar grammal tensor. The origin of the latter might have been the muscle connective tisse. The pernoteum and the muscle connective tisse were probably the bone forming matrix.

The man mass of home in the last three cases attached to the femur. In the fourth case the confication originated in the granulation tense the confication originated in the granulation tense fit is probable, therefore, that the nex formation of home proceeds more intensively and rayidly from the percentage more intensively and rayidly from the percentage than formation, cells with large vessels the nuclear set formed, and these through the break mg down of their protoplasme, must not from slowly calculating gainst cells

In every case the exciting cause of the ossification was traums—in the first case the unsuccessful



The diagnosis is usually easy because there is no other congenial disease in which multiple fractures occur. Rickets and syphilis occusionally cause fractures in young children but it is rare that more than two or three fractures occur in the same person as a result of these affections.

The treatment recommended is care t prevent deformations and the administration f cod liver oil and phosphorus. Care to prevent fractures is the most important single factor in the treatment of outconsultivoids. Pump Lawn, M.D.

Davis, G. G. Ostsoscierosis Fragilia Generalmuta Marmorknochen Albers-Schoenberg Disasse. Arch Surg. 9, 1, 440

The author reports a very interesting case of bone pathology the tenth case of the kind to be reported in any language and the first to be reported in Enghah

The nations was a boy of 11 years who entered the bountal with fracture of the right leg the result of a rather trivial injury. Previously he had had other fractures following shight traums. The menteen ray study of the entire skeleton rayealed generalized abnormality of the bone structure charactenized by marked, irregularly increased density of some portions of the bones and rare faction in other areas. In the long bones, the tendency was toward marked parrowing of the medullary canals in the middle third, due to thick caing of the cortex, the ends of the shaft presenting an expanded pressures and showing thinning of the cortex and coursely mottled effect due to increased density in the marrow cavity. The small bones, such as the vertebra, carpola, and tarsals, presented a generalized increased density with absence of bone structure. The epophy seal lines were all present and normal in width, but had slightly megular margins. The epiphyses sho ed general nacrease of density with beence of bony structure but appeared normal in mie and outline

PRILIP LEWIS M D

Ghormley R. K. A Case of Confemital Outcoscierosis. Bull John II phras Ilosp Balt q xxxxx, 444

A careful renew of the literature failed to reveal case in back the condition described was disg board during life. Several cases reported were disposed at antopry as attenderous, the conditions being regarded as congenital in some and as associated with a disturbance of the blood forming types in other.

The ambor press the hastory and the findings of the physical examination in his own case and includes several illustrations. On first seeing the one in the deporanty he regarded it as the test in the deporanty her regarded it as the property of the period of the period taken it all the properties of the period taken it for the properties of the period taken it for the period of the period of the period of the form properties of the period of the period of the form properties of the period of the per

practically the same condition throughout the centre address In addition the vertebral bodies, aboved marked density at both poles, there was aboved the cortex of the ribs, the marrow cavity was posteredly obliterated at certam points and there was definite thickneing of the cortex, especially in the distal portion, of the long bones, particularly the femors and humen. The skull was thecker than normal. In both femoral necks, d especially in one there seemed to be a breaking down of the bone just below the epophy as the latter structure being disolated in any and downward.

The bones of the patient's mother were shown by the X ray t be normal but the father bones were exactly like those of the child

Pentre Lawry M.D.

Cons. S. H. The Pathology of Osteitis Deformans, Paget Disease. J. Bene & Jani Surg. 9. 6 n. 15

The other gives a very complet description of the pathology of osterin deformans, having had the opportunity t study the bones and the tissues of organs in a case whose clinical history had already been completely reported.

Unfortunately neither the pituitary gland nor the skull bones could be obtained, but therwise the report is complete. This batract will be confined chefly to the bony pathology.

The author concludes that offerts deformans presents esteoprosus with disappearance of bone by lacunar beorption and chemical (vital fluid) dissolution, accompanied by new formation of bone. In the case under discussion the new formation was not so marked as in the cases reported by others. The active process seemed to he is been completed.

There was evidence of breaking down of bone that is, bending of trabeculie crushing dow on neighboring cancelli, obliterating some canals and assisting in the formation of others

There was marked vascular degeneration with variouse venetis, thrombous, congestion, leakage with orderna and mimite hemorrhages. The surrounding tassues were modified to a certain extent as evidenced by changes in vessels, nevers, muscles, and tendons. It is suggested that this was due t home absorption throwing them in contact with

ccustomed (unusual) neighboring material. In the case of muscle attachments the distortion and microscopic changes were especially marked.

In certain area the bone itself showed recercion of fibrous type there was metaplain to impromisous terme and the marrow was myrocautous, sitrous, or cellulate the bone cellu taking part in the process. I some of the bones there was what poperared to be a reversion of marrow to the empedation type showing small and large round cells, megabolating yout, and no composition I possibly this was compensatory. The bone-cell multiplication was an executing part of the deserse.

The pathologic changes aried in the different bones and in various parts of the same bone.

There was evidence of analogous conditions t bone in the organs, timers, and nerves. This was most evident in the tendency to overgrowth cell multiplication. The circulation had been ciration for years, with intermittent compensation and the reverse, the bones, organs, and soft parts being correspondingly affected. The changes involved corresponded to those found in chronic inflammation or in resolution of scute inflammation where renair is the most principant factor.

The author believes that in this condition there primary blood vessel pathology similar to that in hereditary or according synthise, with accommon ving book changes such as are found on a small evalum. chronic practive congestion and infectious of a clamme character. It is not at all improbable that malaria. trobold, influenza, crympeles, or paramtes may produce such vascular lessons with local and general esteftia deformana

The article is supplemented by complet biblioccuphy and an excellent discussion by Morraco and Myers Panto Lewis, M.D.

White, E. P. C.: Oscaltis Deformans in Monkeys. Arch Ist Med 923, XXX, 700

The author reports three very interesting cases of ostellis deformans found among 6 570 consecutive postmortem examinations in the laboratory of the Philadelphia Zoological Society These were the cases of three monkeys, a red woolly monkey a black studer monkey and brown cebus monkey The pathologic reports are given in detail. The cases are of interest because

They are typical of Paget's chiesse as it has been found in man

2 They show the same general type of morganic metabohan as that exhibited in man

t Alkali bunger was shown by one of the mon kers and in two choical cases before the develop ment of the deformity and despreased after the

deformity was established The ducase developed in animals fed on diet imufficient in its moreume and vitamin content. to which an excess of calcium was added

From his study White concludes that Paget's disease may be merely one stage of a deficiency disease that it may be reparative response through () a disordered neurotrophic mechanism () per erson of the calcium governing glands which have been disturbed by an improperty balanced duct, or (1) the delition of an excess of calcrum to the dark of an ammal whose body finds are unable to hold it in solution because of faulty diet or other factors Petter Lewes, M.D.

Frieberg, A. H. Ostsochondrith Desecuns. J Bene & Joint Swig 933 Ett \$

The author review the interacture and reports four cases of outcochondrates dissecurs of the Luce and one case in buch the elbow ass in olved While for the present, I least, this interesting condition must be considered result of transact,

Frieberg believes it is only an indirect result. He suggests that it is brought about through the concidence of several factors the terminal arterials present in the end of the femur may be mented by an boormally long tibial spine hen the knee lam a noutlion of flexion and the tibus is rotated out wardly Prieberg found by stammation of cadaters that ben the knee is flexed and the tibia rotated outward even a normal tibed some may be made to impinge on the posterior crucial ligament. If ether tubercle of the titual spine is boormally long it a concervable that impingement might take place with sufficient force to came vescular in oury result ing in the death and separation of the portion of bone thor draws attention to the fact myelved The that in one case, as in case reported by here in roro, the opposit knee became affected later

The treatment is rehirotomy it a the removal of all loose bodies. An X ray examination should be made of every rount lesson of subscrite or chrosecharacter as by this means diagnous can be made before locking has occurred or loose hady has been felt at point distant from its bed Experience has abown that loose bodies are for time attached by pedicle and operation may then be performed through comparatively small opening When the

tion the procedure is more difficult 3 C Waterman, M.D.

bodies have wandered from the site of their forms Window N. Supporative Octoorayeittle Deer the Colon Bacillus A Surg ger brers, 695

This report of case is particularly interesting as it deals with a comparati ely rare condition Il region to review an other cases of extromy ship In one the condition followed a grashet fracture of the tibra and therefore did not represent the ordinary type of osteomyelities. As in 5 trees there had been previous track of what seemed to he typhoid fever it is possible that the organisms recovered mucht have been those responsible for the typhoid like illness, since both of these organisms belong to the same family group

All age groups were represented. The structures involved were the femur and the costal cartilage in three cases such In t cases there was mised

infection and both of these patients died Winslow's case began as typical track of osteomychus, an abacem developing rupturing spontaneously and pparently bealing before the patient was admitted to the hospital. From the dramage incision there escaped large amount of foal smelling, thick, yellowish pus from hich the colon bacillies as recovered fistation does not believe there was any connection between the track of typhoed fever twenty years before and the Drves W Cent. MD outcomychius

Thorspeon, J. E. Turnors of Bone. Sury Che Y 48 023

The withor mentions the recent advances in the study of tumors of home and states that the assignity of reuseum specimens labeled efant cell surcoma are no known to be benum mant-cell tumors

Paget in 8th described very clearly a group of central tumors of bone which he called myeloid tumors, and regarding which he said, they are not not to recur after complete removal nor have they in general, any features of malignant disease

Thompson reports three cases of myeloma, or benign guant-cell tumor. In one, amputation was The author believes that the amputation was imperessary and that amoutation is don too fre quently in such cases on the erroneous diagnosis of mahamanev

Another case reported was case of cry malig mant osteogenetic sarcoma of the femur Amputa tion was done below the trochanters. Six years after the operation the patient reported perfect

brelth

The cellular elements from which osteogenetic execomata may arise are present in the periosteum m the bone and to less degree in the marrow cavity Round celled surcomata of cry males must type may arme from the lymphocytic cells in the marrow and frequently man their prearance m several bones simultaneously

DANIEL II LEVINIERAL M D

Bloodgood, J. C. Bone Tumors, Metastasis to the Lunds from Pure Myzoms A Sarg 9 3. have, of

cases reported by Bloodgood establish fairly definitely the fact that pure my nomata may give rue to metastasa as well as to local recurrence

In the first case the metastases t the lung ap peared about ten years after the first operation, and n the second, four and one half years afterward which is late as compared with the metastasis of true sercome of bone. In Bloodgood opinion there is pure my some of bone with distinct gross and microscopic ppearance Grossly need, relatinous tapace like material, which may be blood stained exodes under pressure from the bone capsule of the tamor

Microscopically frozen sections are more chara teratic than those made after long hardening. The pure mymma is care. Frequently the tumor is mated the cartilage but more often the sarcoma Osterus fibrosa and pure chondroma ha diagnosed as myxoma or myxochondroma. Osteitis abrosa is distinctly benign while pure chondroma recurs only when improperly or incompletely re moved. There is nothing characteristic in the climcal or \ ray pecture of either the periosteal or the cratral lesion. Therefore if an exploratory incision n made for diagnosis, the possibility of myxoma should al 30 be borne in mind and the electric cautery and chemical ca terms toon with pure car bobe and followed by alcohol and go per cent solution of mac chloride should be employed t prevent transpl tation of the tumor tissue

RUDOLPH S REECH, M D

Hansen O S Multiple Myelou J 4m V 1cr luni 2010

The a thor reports seven cases of multiple my loma, four in men and three in somen. The versoe age tomet was us years. The duration of symp. toms from their onset to death ranged from three to twelve months, the average being seven and onehalf months

Bence Jones protein was found in the urine f only one of the seven cases after many tests had been In several the diagnosis was not made topsy The author believes that m limbe my cloma should be suspected in cases of backache or pain in the bones which cannot be explained satisfactorily there is

The test for Bence-Jones protein should be re nested as the beence of this protein does not speak ramet a diagnosis of mycloma

PRILLE LEWIS, M D Brown K. P A Case f Solltary Cyst in the Hu merus. Edusterek W J o

The case reported was that of woman 3 years of age who was admitted to the hospital with fracture of the lower end of the humerus A few seeks after cold in October 9 , the patient had complained of an ache which radiated from the elbow to the shoulder and occurred at irregular intervals About June, 92 she felt her left arm crack while hanging up clother. The Wassermann test was persired

Examination of the left arm revealed a hard, smooth funform swelling is in in length at the lower third of the humerus. No cracking could be elected. The \ ray revealed a cystic area in the center of the bone with partial destruction of the compact bone and fracture through this weakened area Roentgenograms of the right humerus, the femora, and the tibue were negative,

The cost contents were curetted and the bony

wall surrounding the cavity left smooth

Microscopic examination of the cyst contents re vesled many bony specules surrounded by cellular fibrous tustie A small area of hyaline cartilage was

also seen Bone cysts are related to certestis fibross. They occur most frequently in the humerus, tubia, a d femur neually near the epophyseal cartilage lower end of the humerus is rarely involved. The etiology is becure

The diagnosis is based upon the history microscopic examination and roentgenogram

JOHN MINISTEL, M D

Stewart, M. J. A Large Myelold Surcoma of the Radius in Which the Turner I. White Through out. Bra J Sarg 9 3, E, 3

Myelosi sarcomata are generally of a maroon color. This may be prevalent throughout the whole tumor or affect only part of t The red area con tam numerous multinucleated grant cells and red blood corpuscies, or hemorrhagic extravautions

Some of the white portions are highly cellular actively problemating myeloid turns with umber of me t cells

Paget describes myeloid surcoms in these words On section, the cut surfaces appear amonth uniform, compact shining succulent, with a vellowish not a creamy fluid. A peculiar presence is com monly given to these tumors by the cut surface presenting blotches of dark or lived crimson or of a bro amb or brighter blood-color or of pale prik. or of all these tints musted, on the grayab white or greenish color base. This is the character by which, I think, they may best be recognised with the naked eye, though there are diversizes in the extent, and even in the existence of the blotching The tamor may be all pale, or have only a few points of ruckly blotching or the cut surface may be nearly all suffered, or even the whole substance may have a dull modern or crimson tings, like the ruddy color

of heart or that of the parenchyma of a spleen The uthor reports the case of gurl 6 years of age who had had a swelling of the dustal half of the left forcarm for three years. During the last three months the gro th of the tumor had been raped N huttory of injury was obtained. The tumor seemed to soring from the radius. It was firm, regplar and not tender \-exy examination showed its site to be the distal half of the radial durnby as The central part contained no bone. The part excised for study was white and contained numerous ostroclast his guant cells. The surrounding muscle and other soft parts had been invaded

Amoutation was done. The amiliary stands were not touched as the patient suffered sovere shock When she was discharged from the hospital no

anillary stands were pulpable

The microscopic structure of the specimen was derating tuesse had muzed and spendle cell around work with many multioudested grant cells of the outcodast type. There are many areas of accilular

Whether they are endoated or persoated sur comata of boos which are hits are almost invari bly highly mahanant. The presence of enlarged amilary glands on the same aide as the tumor sug gests malignancy but so far no conclusive evidence has been produced t show that the enlargement as due to metastatic deponds. The author suggests that it is caused by the absorption of blood and the disastegration products of the tumor by the lymph Joseph Minimuter, M.D. **e1x3**

Jean, G. Brachydactylla Due te Congenital Short ening of the Metscarpule (Brach) darties par raccourancement continued des untacarpues). Re-Corchet 9 3 EE 335

Congenital abortening of the metacarpula is pare mulformation. The first cases ere reported by Sandifort in 178 Joan reports the case of man years of age who had abortening of the right hand, and whose father and brother showed

similar malformation. The patient's third from was much shorter than the others, but was not atrophied The X ray revealed absence of the detal part of the fifth metacarpal and fusion of the rest of it with the fourth metacarpal. The fourth asetscarpal was of normal length but its duply as

as thinned and curved should inward and to head much smaller than that of the second and there metacamela. There were no malformations of the carpals or the forester and no other angreshes

Brachydectyles is usually observed in the first and fifth metacarpals. Generally the shorteness is t the expense of the dutal part of the bone. System topes and syndactivity are common, both are show

by the X-ray The pathogenesis of shortening of the metactipal must be sought in the mode of sacularization of these boses. Ossification of the metacurpole does not occur until the eightrenth month of his and mal formation may result if the circulation is deficient The fineer has its own independent vescularisation

The fact that such mulformations are more comment m the first and fifth fiarers may be embased by the evolution of these bones. Probably also certain phylogenetic factors such as aministic compressor and embryonic infection are responsible

Ti A REEVA

Henderson, M. S. Chronic New Inflammatory Leplans of the Knee Joint Arck Serr say.

For the convenience of the surgeon, the knee joint may be divided into an antero-superior compart ment (the suprapatellar pouch) an antero interes compartment, and posterior compartment, each of which may be subdivided into internal and external

Spraint Sprains of the knee joint ar not unconmon. The internal lateral hysment is meet educainvolved. The differentiation between damage of the internal semilunar cartilage and arram of the ligament is not always easy but in cases of spram locking does not occur and there is usually a full mange of passive motion. Rest in the position of extension followed by being and message mastly gives rehe! If pain and tenderness period, taking the mner ade of the sole and hed often relieves by removing the strain from the internal legament.

Ruptures of the crucial I personis This condition as rare. If the anterior crucial beamant is term, hyperextension of the knee is permitted ad the femar sindes backward on the tibes or the tibus sindes forward on the femur When the posterior cracus ligament is torn, the femur may be pushed for and on the table or the tibes peaked backward on the femur Treatment by the application of plaster of th the leg slightly flexed often results in Parsa cost excellent (meches

laire erhealer fracturer Severa direct trauma may cause these fractures. Lattle can be done in such cases without arthrodess, which most patients all not permit Prolonged fination in Cent or splint is apt to leave till joint Early motion is cincutal

and may be carried out under extension with a modi-

fied Thomas solut

Recurre a dislocations of the paielle. The patella al sys becomes dislocated out and M y satisfactory operations have been desired. The author reefs the inner capsule and overlaps t broadly after lengthening the outer cuprale. The condition is more common in omen than in men, and there is a familial tendency
Old sussaided fractures f the patella Treatment is

difficult. The object is to beam approximation of the fragments without tension and then bony union The a thor makes long, traught mession in the middle line exposes the fragments, and freshens the ends of the fragments until good bone is reached Beef bone sures has proved satisfactory to hold the fragments in comptation. In the after-care, slight names motion is begun in about four weeks, and soon thereafter alight active motion is encouraged

Intrasic mechanical derangement of the bues point The semilimar cartilages are the most common cause of mechanical devangement. The chief offender is the internal semilinar cartilage. The most common tear of the cartilage seen in the Mayo Chine is the so called bucket handle type Became of talouse attachment, the external semulumar cartilage is less often caught when t is caught, however t is more ant to be detached to ta periphery and crum pict rather than torn

A primary locking of the knee should not be oper ted on, but should be reduced by applying pressur over the anterior aspect of the internal semilunar cartilage and rapidly extending the knee. When lockmen are frequent, survey as necessary. The entero external increson is the moreon of choice for

the removal of the internal menucus Another cause of mechanical derangement is th presence of osteocartilaginous loose bodies which cause locking by becoming canalit bet cen the soint surfaces Their formation is due to exteochondritis dissectant, hypertrophic arthritis, or esteechandro matoms. In outcochondritis dissecurs there are rare ly more than one or t bodies, which arise from the internal condyle of the femur I hypertrophic arthritis loose bodies may be formed by the breaking of of esteophytic growths I esteochendromstons, estcocartilagmous bodies are formed from the vino val membrane and may be ery umerous R movel of such foreign bodies is indicated. The split patella incuson is the incision of choice for the re moval of bodies found in the anterior compartment tale posterior lateral incresons are those most use-

ful hen the bodies are in the posterior compartment Mertin, W Sciatic Neuritis ad Its Relation t Flat Foot, Am Med 9 EXYLL 69

Inflammation of the scuatic nerve may in oh- the permeural tissues or the nery trunk Acuritis of the trunk is not so common as the less severe type Permeantly is of shorter duration and more amen able t treatment than neurits of the nery trunk As inflammatory expedite throw out is deposited

in the sheath itself, but soon in olves other tissues Organization of this exudate results in pressure which in turn interferes a th the trition of the perv cells. Loss of motion or sensation or both and loss of muscular atremeth or atrophy may result

Limitation of motion is the first severe effect of th adhesons caused by the evud t In the inter statual form of neuritis, pain is severe and rell in tri

ten soon desturbed

At the lower third of the thigh the sciatic nerve divides into the external and internal popliteals which are continued through the tibials to the foot Inflammatory conditions involving the tranes lo g the tendon of Achilles will influence the relative noution of the astragalus to the other bones of the loot causing marked rotation or other misalloement of the heel due to tenseness or lanty of the tuenes. It will also cut off the natrition of the nerves. The author cites a case of flat foot resultion

from scatte neurits secondary to tooth infection.
In such a case the source of the infection must be eliminated before the first foot can be treated successfully. For good regults the treatment must include

both orthopedic and electrotherapeutic measures The thor uses the tatic we to express exudate from the termes. This has also a sedative effect mon the inflamed perve and toning action on the nerve cells. Relief from exudate pressure lessens the danger of atroophy

When the nery becomes less sensitive, the slow anusoidal current is employed to restore the tone of the muscles and ligaments Josev Mirrorgia, M D

Modat B. W. Isolated Duesse of the Scaphold JAM MAG 01 kmx 87

Forty t cases of isolated disease of the scanboxl have been reported since the first case described by koehler in 908. The disease has been mutaken for tuberculosis, but tuberculosis has not been demonstrated and the course and final outcome are not the same The pathology is unknown

Etiological factors suggested are outcomy little. tuberculous, syphilis, vascular change, traum's and endocrine disturbance. As rule the !! mermann reaction is negative, but in one case reported the teeth were notched and the child a mother had

4+ reaction Trauma may injure the maincation center or tear off the nutrient vessels

The chancal symptoms to a shight home and discomfort or mild pain in the scaphoid region. The scapbord is enlarged inditender but an bacess never

forms The treatment is immobilization for three to ten

weeks. The prognosis is excellent The patient was child ; years of age CASE

Limping began t weeks before he as examined by the uthor There was no history of trauma The family and personal histories were negative Pain occurred only at night. A prominence over the scaphood and tenderness on pressure were noted The feet were markedly promated Immobilization for bout mx weeks caused disappearance of the

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tenderness in the scaphold. There was no recurrence

up to t o weeks later

Case The patient was a child 6 years of age who humped and complained of slight pain. The foot had been run over by truck about three months personally. This accident had caused disability for only four days. When the patient was examined by the author the foot was abducted and proacted and the exciptionly prominent and leader. The recutroupram made past after the accident as a separate, but when the patient made and proposed and the patient made to the patient of th

CART 3 A child 7 years of age suffered an injury to his foot in july which disabled him for four days A roentgenogram made in December showed Keehler's disease of the scaphoid A cure was

obtained after immobilization in cut for a month CARR 4. This case is that of a child? year of years of years of the case of years of year

In the other opinion the disease is caused by fargery causing hypertrophy of the scapbood shield, being cartilagenous up to the fourth year of age, becomes compressed, the soft, newly formed osserous portion spreading out laterally

RITLEM A CLARK, M D

PRACTURES AND DISLOCATIONS

Young, A. A. Five-Year Survey of the Routine Treatment of Fractures by Operative Methods Brd. M. J., 922 n., 209

Duning the period of five years from May 2, ory to May 9 2 young treated 60; case of fracture. General anesthesia as addressed in 450 cases Open opentions are performed in 2 cases (19 2 per cent) and direct first now was employed in 50; cases (17.86 per cent). Wring as a doce in tently one cases, paramage or nating in 1 city great in 1. Ann and plats were used together in

ty cases and a ring plate was employed in one The fractures included fractures of the lower pay claysile, humarus, olectranon, radius, alma metacurpal phalanges, femur patella tibus, and meta-

turins. The use of ware in the firstson of fractures has fallen somewhat into dislavor chiefly because for long time sliver were was employed which was not strong enough to hold the fragments in the fixed position and snapped short. It have point The inthe uses thin bease were which is stronger than aller ware of the same thickness and resust the

action of the tissues for as long as necessary. This wire is sterulated in the usual manner and just before it is introduced in passed through the fame of as arobiol lamn to make it more plable.

In fractures of the radiohuneral joint it is posnible t accomplish all that is desired through the opened joint. The fragments re adjusted, for spring pin is introduced, and the ound completely closed without draining. The high is the pot up in a ficused position in a light plaster cast for its or three weeks.

In fractures of the acrossleds scalar joint the fracture area is exposed, the small fragments are fixed temporarily and a long resection put in passed through the fragment and into the shark of the base through an external pincurure cound. The wonad then closed and the arm fixed across the chert in plift plaster cast which is worn for two or three

I none of the cases of fixation by open operation was there any complication due to sense

S C Transpersonated, M.D.

Edington, G. H. The Temporery Plating of Fractures of the Long Bones. Brill J. 513, 2, 1 14

Fractures which most commonly region plating are those of the tibus, femin and humers and less frequently those of the fibula, radem was, and clearly those of the fibula, radem was, and clearly the respective to the fibula opening the fibular to the fibular than the fibular than the fibular than the first free from ulceration and the first fibular to reduce the fracture. The cold may be field in position by a lame forcet or dead may be fiveld in position by a lame forcet or dead may be fibular than the fibular

The skin is prepared by an appears solution of phenol and the fracture exposed by straight or curved measure. The straight is curved measure in the bone has good covering of muscle, while the curved measure more suntable here. phin is used. The permostrain is muscle and strapped of the area of bone to which the phit is it is applied. A lane patte with three or loss holes and area to be used. Sight its should be employed for amorbiding the object of the most of the most of the curve of the state of the condition of the curve of the condition and the curve of the curve of

position that function 'ta be restored fitter the fricture has heided. The plate is removed in the of four wrels, when I has halfilled it function as an internal spint. As rule, bosening of the serve indicates that union is taking place. Spints and characted after air seeks. A fluster can be after the lower limb for a plate of the lower limb for the limb

The author draw the following conclusions

Open treatment abould not be resting

Temporary plating to rehable form of in ternal sphering in cases of fracture of the fibra, femus and humerus 3. The skin incision should not come into contact

nh the fracture

4 The periostrum should be stripped where the

plate is applied.

§ A flat plat with Lane screws gives satisfac

tory results
6 External splints are necessary for support

7 Plates and screw should be removed: from three to four weeks f. Looseness of the screw indicates repair of the

fracture.

9. Plating does not prevent delayed union or no more S C Worderstand, M D

Campbell, W. C. The Treatment of U united Fractures Am J Surg 913, xxxva,

Campbell reversed the records of 55 cases of incitare treated in his clinic during a period of five joan. Surfy three of these cases were treated by open reduction. This method is employed only a hen absolutely necessary. It was not used in any of the cases of fracture of the femur.

Campbell concludes that the morease in the num be of summet furtures in recent years is due to a difference in the type of the fractures, improper unterpretation of the X-ray plates too frequent attempts to reduce, and too frequent resort to open operation. However whe there is no ray of the formation of bony callies at the end of an months the fracture should be considered minimited and radical measures should be instituted. The author time the following technique when open reduction.

is indicated

A routine dissection is made to the point of fracture, and the fragments are pared so as t- allow perfect couplation. Great care is taken to preserve as

much persosteum on the bone as possible. The ttachment of muscle and soft tasses t the personteum is not severed along the hin of the incision. A broad area as exposed for several inches on each frag meat, depending upon the size of the bone involved and the location of the fracture. With a sharp flat surface is made on both fragments Scar and osteoid trione are reamed out of the me dulls to health; marrow usually from to in of each fragment. A broad flat graft including person teum, cortex, and endosteum is taken from the tibia The width and length of this graft depend on the part involved W the motor saw the graft is split contradually through the edge or small diameter into two parts trong outer plate committee of dense bone of the cortex and an inner plate consest ing of thin portion of the cortax with attached endosteum. The endosteum is removed from the tener half of the graft and a strip placed a thin the medula to bridge the fracture as it is reduced. The beavy cortical portion of the graft is held firmly to the bone across the point of fracture. Three or four holes are then drilled through the graft and bone and male made from the cortical portion of the inner graft are used. A second graft of small size can be easily secured. Small particles of endosteurs are

packed about the point of fracture and the thanes are closed tightly in layers

In some of the case Campbell cut a slot about in wide in both fragments, inserted a massigraft edgeways into this slot, and then brought both fragments together. A togenous bone null were placed through the bone sod graft. There is some encrotament of the graft on the endosteum but this is not sufficient to prevent attristatory results. The fragments are tabilized so that no most can be detected when the operation is completed.

but enternal fustion is alw ys applied.
In order to complete the operation in
length of time a team of five is necessary two to preper the grafts and main and three to carry out the
technique. T prevent delay muson, reduction if
the fractive must be accomplished a time in
the fractive must be accomplished. A minimal
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S C WOLDE WEED, M D

Duff, D. The Treatment f Un nited Fractures by Bridge Grafts. Bril 1/ o n. 5

Open operations to bridge gaps in bones must be performed with the most scrupdous cars a regards sapers. Ligatures should be handled and tired with forceps, and strongs of the soft parts abould be done only with a needle-halder and forceps. At the end of the operation the surgeon givers should be free from blood stains as they should not have come into contact with any part of the wound.

Duff has tred our various methods of treating num ted fractures, such as the vedge intramedallary inlay, the combined unlay and intramedullary grift, and commingtion of the bone ends. Each of these methods can be used in certain cases, but the unity method or the combined may and medultary method or the combined may and meduling a such as the suc

A weige-shaped grid a unapercontent of a weige-shaped grid a unapercontent between it and the bost bose a theat sphings the host bose of the state o

Duff uses phospho-broare were in anturing I fail shoulders I pipes a double graft between the glassed and humerus I gap fractures of the thin, the shding may and ordinary inlay grafts give good results. In some cases a person of the shulla may be cut off and placed in the gap of the tibu.

The after-treatment in these cases is important.
The lamb should be placed in ol ster cast in a

Versy examination showed that the acetabolic framents had also become so perfectly replaced that all signs of the fracture had disappeared. This second case followed the classical course Tu reduc tion of the fracture following reduction of the luvation B & Berry

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Bradburn M. Fracture of the Femuer. Sure Clia 1 40 0 u, tu

Bradleura gives briefly the essential nounts in the modern treatment of fractures of the femur and includes in his article rictures of a case in which the result was accilent if not perfect. He ad ocates the use of skeletal traction by recens of tones, and states that he ha never been unable to secure full browth of the femor by this method. If you the Thomas poliat with the knee-ferms attachment and not is out the advisability of moving the knee throughout treatment this belog easily accomplished

ith the prurates described. The ose of an am bulators spilled is desirable for at least three months after the patient is out of bed Bradburn has found that akeletal traction is comfortable to the nations and that the danger of infection about the californ points is negligible. He reports to cases of compound inscture in lich he used Lanes plates con-bined with Carrel Dakin treatment, the plates healed in position

The complete article should be read by those interested in the successful treatment of fractures of the least to order that it may be studied in con-Impetion ath its exterient illustrations

Dr. n W C itr MD

SURGERY OF THE BOYES, JOINTS, MUSCLES. TENDONS, ETC.

Adams, N. R. Bone Gestiling Jung Gyar & Obd. 9 1 LTY1- 07

Bone grafting is indicated t repair injured bone stimulate outcorracts, replace hope, and chose foramina or treplace openings in the skull

Bone transplantation as first done in 1800 by Merrent. Since that time there ha a been many studies of bone transplants but surgeons are not ret agreed as to the unimate function of the graft Various grafts to used, the the homoplastic, beteroplastic, and tagenous grafts bouled bone and hory pegs. The author regards the autogenous

graft as the best. I using the intramedullary graft Adams makes has incuson t our side of the center of the bone. The graft is taken from the fracture. To obtam the exact waith of the medulary canal, one end of the exposed fracture is tulted up The tern saws are then act mecture is there up are term saws and them are to this width. The graft is 4 or 5 in long and does not extend closer than within a in of the fracture. One ead of it is pointed and the other blunt. pointed end is meeted into the bed from which the graft was removed, and peabed rate the medallary ranal past the line of fracture ad mt the medulary

canal of the opposit and of the fractured home se that it bridges the fracture Since the grift is the exact whith of the cand a

bolds the Iractured ends firmly and in good position lors Minemat M.D. Whitman, A. Observations on the Correction of

Deformities of Long Standing J in H der tere ber. 18

The author reports the case of a man 52 years of age whose kers became completely paralyzed fal-louing an attack of anterior pollom chits which occurred in his fourteenth year. On the next pole there was ferron contraction of the bin at an auris I 130 degrees and flexion contraction of the leg and thigh t as angle of 95 degrees. The lost dan gled, but a not deformed. On the left id- the derson contraction was 100 degrees t the hip and 00 degrees t the knee An astrontiectom; was per formed in December out a Soutter operation in Japann or and another unerskettern or the other foot in February of or In March, 191 a Souther eperation done on the other side and followed by the polication of plast ca to with correction made and anarothesia On May 2 0 the patient w able t stand On M 1 21 102 h took has first top nd on Jame

with cret has The conclusions dra a from this case are as lellors

t Deformaties of indefinit duration may be promutally conciled Some nationals regard independent locomotion

orth the risk of repeated operation 1 A ungle operation may be relied upon ex cleanely combined gradual mechanical and opera-

in correction is necessary 4 Functional tree has direct influence on the deposit of calcium in hone

S C ROCKEYPLES VD

Veli III lans, C. A. The Efficient Treatment of Acute ad Chescie, Simple Traomatic Sym-vitia Harmatthreels ad Hyderthrosia) by Repeated Aspiration and Immediate Active Mobilizations Without Spli ting day Sort or lyxys 677

Ticlistrates does not approve of the classical method of treating manufa of the knee west by emmobilization and its orderity adjuncts. In its stead, he advises aspiration with fair maid needle soon after the injury. When aseptic conditions are sameted be has no fear of infecting the knee your He advises repet tion of the aspiration as often as seccessive i keep the joint free from fluid and reports ery satisfactory case buch was cured by the tweaty-first day. The method described by regards as the best method of treatment provided

there are no joint mace or dislocated cartilages The asparation should be performed samedutely before the legaments become stretched. It results in a cure in half the time required by the old method

To leave finid in a knee joint is just as irrational as to leave finid in the chest. Asparation can be performed in the doctor's office and the patient allowed to walk home immediately afterward.

Deves W Cana, M D

Hold, C. Resection of the Duttal End of the Ulns for Shortuning of th. Radius Following Fracturs. Calderns Stat J. M. 9 3 xx.

Any fracture of the radius which results in short ening of the bones causes certain characteristic changes. The ulna becomes relatively too long and blocks ulnar flexion. Pronation and suparation are limited. The hand cannot pull or lift in a

traight line th the forearm

To overcone these difficulties the author resorted to resection of the dual The only cases stillable for this procedure are these in which there is definite portruson of the ulan into the wait joint sufficient to himst other are the another in the dual with or without subtraction of the ulant hand with or without subtraction of the ulant of the ration has been abortened or the epubyias has been impacted or committed.

By the author' technique made over the internation of made over the internal and of the disar head and the bead druded at the level of the articular surface of the radue. The trangular cartilage between the radue and the disa has all ye been found fractured. The disart style disables fractured it is upportant to preserve the radio hard lagments, and the surface of the radio and the radio and the surface of the radio and the radio

Removal f the ulnar head results in partial loss of the bony groove for the feator carpi ulnaria ten dos. If subpernosteal resection is done, the soft tissees maintain the pontion of the tendon satis factorily. E ery effort should be made to preservite function of the internal lateral ligament f the

rist
The author reports four cases and summarizes
his article as follow

ns article as follow

1. The operative technique as considerably supplified.

Immobilization is rendered unnecessary 3 Rotation of the forearm and lateral motion of the wrist are more completely restored

There is no possibility of non-union and less opportunity of infection

5 The restoration of trength and coametic results are better Jone Mirranii, V.D.

Legg. A. T. Transplantation of the Tensor Fracisc Femoris in Cases of Westerned Gluteus Medius J. &w. V. Ass. 9, 3 ixxx 242

The uthor describes the operation he decised to rehe, the lump caused by eskiness of the gintens medica muscle via transplantation of the tensor fascia femoria muscle int the outer side of the femur

He emphasizes the i ct that the tensor fascle femor's is not only an abductor of the thigh but a very important flexor. It also bolds the creater of gravity of the body over the supporting leg when the other leg is russed from the ground. The tech mouse of the operation is a follows.

The incision is begun at the anterio superior space and extended backs and and downward over the great trochanter and then downward along the course of the femur for about 3 in. The salm with the subcutaneous fat is reflected forward, exposing

the fascia lata

Antenorly running downward from the ant nor superior spine, the fascia late becomes thin before it extends over Scarpa's triangle. Along this line the fascia is incised dosinward from the anterior superior spine to 3 in below the great trochanter where it is divided transversely backward for boat

M in

At bout M in below the great trochant r the
fibers of the tensor fascus femous become inserted

into the fascia lata

The outer surface of the femur is ext exposed about \mathcal{H} in below the trochanter by dividing the fibers of the vastus externus. A periosteal flap is

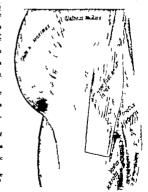


Fig. Normal anatomical appearance about the lap. The black line along the terror fusion femoris represents the sociation made in freeing this provide before transplicate from

position to prevent arisin on the graft, and the next day window should be cut in the cast over the wound to releve the pressure. As noon as the wound is bested this kindow may be filled with plaster When the plaster is removed the hinh should be supported by high three and given high massage When amon is delayed without apparent came for the rest in a plaster cast and massage will some-

tmaes result in firm union 5 C Woznawana, M D

Yan Heck, W: Fracture-Dislocations of the Husseral Head, Beetes H & S J 0 dixxru ofco

Injured joint cavities in which there are bone surfaces not covered by persenteum or cartillage can be successfully treated by the subcritaceous implants to oof fat tisses. When such tisses is subjected to recurrent persenter as in posit cavity. I becomes themer tougher, and more reshort and loss me, of its oil and lymph-space distention. Proficied fulga are better than free flags, but the latter than the profit of the profit of the profit of the probecome viacularized and serv-very well. Deader the loss of the profit of the distance better the joint ends must be decreased as much as postuble.

When a small fragment w thout muscle attachment is dislocated in the shoulder yout at the time of fracture, the difficulty of replacement is great. In most cases of this type the fragment should be exceed and flap of fairty consective times in the first way.

posed. Van Hook reports the case of woman 32 years of age whose shoulder was myured four seeds before the came for treatment. The X-ray showed that a sancer the peers of bone had been bruchen from the head of the humeres and longed below the glescod cavity. The yant was opened, the destached peer removed and. Itaps perhanculated flap of intty arreder tasses from the doming soft parts pushed to the contract that the property of the period and the glescod them was then directed and the glescod. The arm was then directed and the glescod to the term than prigor humeral flavor and the glescod. The arm was then directed and the glescod to the contract the property humeral tension at Massage was given later. After several months, motion: I the shoulder pout as almost normal.

File G Victoria VID

Chrysmils, M. Congestral Bulgarral Forward Laza clon of the Head of the Radius (L. cs. de luxa ton conglutale bilatinale de la tit da radius en ant). Res Coules o voix sao

The case reported by the a thor was that of lodder so years of age who here a child feld on he left hand and several years hare fell on the right hand. Since these falls the elbows had been staff and the arms semificed Keentgeorgans above blatteral congenital forward lexistion of head of the redors.

Bilateral functions of this type ere fou d in ta h of thirty five cases of congenital luxuism I the bead of the radius collected by Russ, Luminsson, and there. The condition is more common as

The author's patient behaved his malformations were due to his falls and could not be convinced that they were congenital. No other malformation was found in this case. W. A. Rayrada was found in this case.

Ruspp, ILB. Defection of the Semiluner Cerps. Bone. J. dei M. Atr. 910, http://gi

The enter terril cs of the semilinar carpel bose a structure error for slight roughness for the stated ment of the document of the semilinar bear and because of its uneven compression between the medium of the radius and the radius and the radius and the radius and the radius stated for forthle hypercations of the wrise is such hyperstension the thorp downs length of the datal lend of the radius shaves off the document of the semilinar as the crowded forward out of its resting place, its strent pole being fixed by the anterior redocuption from fixed by the anterior redocuption.

ligament Next t fracture of the scaphold, dislocation of the sensionar bone is the most common many of the rut. The fineers are fiered and held need because of the presume of the dislocated semigrant on the flexor tendons and the median serve, and if the bone grants marked pressure on the nerve, asmb ness and tingling result Pain and swalling are local lzed anteriorly. An anteroposterior rountercourant demonstrates the dislocated semilurar much closer to the plate then the other carpal bones, while the lateral view shows t more or less completely retated forward. The hand appears shortened because the on marrown settles into the space left by the semi lunar while the anterconsterior dismeter is increased because of the antersor displacement of the semilunar hone Occamonally the semilunar home a palpable beneath the flexor tendoes in the enterior WINT PEROO

Bloodless reduction preceded by the pplantion of most of they hast for from three to twenty from bours should at yet be attempted fart in both exity and late case. Under general assertions preservational the matein on the dislocated bour still be through while the wrist is plant from the former through while the wrist is plant from the forces. If facilitate reduction Stress advantages forces the Thomass report in Bloodless reducts the use of the Thomass report in Bloodless reduction.

If tempts t bloodless reduction hal, open or duction is accessary. Dava double curved shift will be found very medal. If the the wrait palms fixed and with traction on the hand and one for the lower pole of the semilman bose to book and one is the mode the on manufactured in shipped over the lower pole of the semilman bose to book and one is other indeed the on measurem.

my its edge under the or magnitum. The author considers at better to reclave the disfocution rather than to recease the bone but if the dislocation at associated ith fracture of the sea phood exmost of the samplorar in the promotiingment or all of the scaphood gives the intertously result. Bradford, E. H. The Treatment of Congenital Dislocation f the Hip. J Bess & Jest Surg 923 xx, 76

The end results in nine cases ten to twenty-five years after reduction by the open and the closed method, are reported. Function was asstalactory in all energy its. Both of the latter were careful of the states were careful or the states of the states which was a state of the states of the state

Coepenial dislocation of the hip may now be reparded as curable but forty years ago three was no through and saturlatory method. It testment Absormalities which must be ercome by the surgion are shortened solidation and horspa muscles contracted legiments and capsule which act as a slung carrying the body weight from the neck of the femur alteration in the shape of the excitablism distribution of the second of the results of the residence of the second of the results of the residence of the second of the results of the resistant soft tesses, (1) the placing of the less apposits the arctabelium (5) the reduction of the

bead into the sociat through the contracted capselle Manpilatin reduction can be made sensor by mechanical parastra. In a traction parastra used in a large number of cases at the Children s Hospital, Boston, a strong rod esteeds from the permeum to leave the foot Counter-pressure comes on its upraphra squanst the permeum A V shaped paces from these opening statends over the antero superior spaces and when champed does hook the pelvarily. The large strongly before the antero superior spaces and when champed does hook the pelvarily. The large strongly before the attention of the same time. Ever the following of the same time. Ever the following of peaks the reduction particularly and for any of the same time and for a red. Thus the bead in forced through the stretched capsule and into the scrubbiling means.

The best pointion ill necessarily be with the limb strongly abducted, as the reduced head is then presed against the bone structure of the sock t, while if the limb is add cted—considerable part of the head hes against the weak cartilaginous rim. As soon as the extension

use near her against the seal; cartilaguous rim. As soon as the retaining cartilaguous caprolar ring bas become another terms of the retaining the harder of the bacted postnoss should be changed and the lumb restored to it soomal postnos parallel in the long and the state of the body. If he period of cartination it is search that the great trochaster be kept in the because the state of the body is the property of the state of the body rather than belond if, for case section of the body rather than belond if, for case section of the body rather than belond if, for the state of the sta

mg function f the ilectibial band, pressing on the great trochanter is not utilized and does not force the head into the socket as t does if the trochanter is in its normal place

The length of time immobilization and other steps in the after treatment should be continued cannot be stated definitely but must be left to the judgment of the surgeon in each case. If with active use the hip remains in place for a year the cure is probably permanent. In rare cases, however there may be a relapse after several years.

Reduction by open musion abould be reserved for cases of relaxed or distorted capsule which cannot be reduced by manipulation. Incusion means a deep wound followed by dense creatrization which may interfere with the functional result:

Osteotomy to correct the twated femor is unjustifiable because the muscles adjust themselves to the new relation and the joint function becomes normal in mite of the twat.

As open operative measures also he ether place the surgeon hould be skilled in several methods of reduction and be able to choose intelligently the best method for each case. In the cases of younger that drun it is sometimes essuest to place the patient face down with the affected leg haping over the edge of the table. Strong pressure can then be made on the trochanter while the leg is manpulated.

If the deformity is corrected before the child be gins to walk an absolut cure can be expected William A. Chare, M.D.

Chauvin, E. and Hayem, L. Two Cases. Himited Fracture of the Acetabular Rim in Luxation of the Hip. (Dear case do fracture huntle da sourcil cotyloshen as cours d'une huxation de la hancke). Rel Center 9 2 XXX, 543.

Fractures of the run of the acetabulum are rightly considered complication of traumatic fractures of the hip. In 850 Sens collected tractly-seven cases and aboved how the fracture can be produced experimentally in the cada er. Since then the thors have found only elseen other cases.

I this article two new cases are reported. The first was that I man all years of age who was marred in an utomobile condent Physical and Vary examination showed a conformeral limitation of the that type. The roentgenogram revertled also inscriber of the rum of the actabulum. The distalled fragment belonged to the antero-inferior border of the rum and was displaced outwarf in the space between the neck of the femure and the slimm. Rediction I the lumation, as easily effected. Opera the between the deplaced acetabular fragment than the state of th

The second case was that of a man 50 years of age who was injured in fall Examination received back and haration of the hip. The X-ray showed also a fracture. I the cetabolar run in the postero superior portion. Reduction as easily effected, the femoral head resuming is correct postion. A later

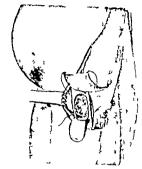


Fig. Gross in fereur and freed tensor fasci femories with all, suture before macrison into the femorie

turned downward t this point, and groose going in the marrow is made bout in long and 1/2 in wide

The free end of the fasca lata is then satured with N 181 steel all and inserted int the groove by carrying the alk ends through holes drilled in the fenur on each safe of the groove. The knot is thed over the fasca in the groove and the periodical flap is turned back and sutured over the groove continues the fasca.

Before the saturing with alk is completed, the thigh a addicted bout yo degrees, when the fasce is seen to have moderat tension. The skin and subcutaneous fat flap is then turned back and sturred by layers to their original situation.

A plaster spect is applied from the wast to the

ankle, with the leg is so degrees f abduction.

The postoperative treatment consists of simple superficial musicipe after two cells and musicipe training feer four cells. The patient is also cd to

go boot with the spice and crutches at the end of four ceks.

At the end of t months the spice is removed and an abduction walking spinit police, which the

patient erri for au months.

The author has performed this operation bout fifteen times at the very satisfactory results in most cases. The Trendelmburg sum has disappeared as the letteral awaying of the body has decreased if it has not disappeared. The surfor states that when the lump is due to exhore so both the girtrans.

maximus and the gluteus medius searce, as the lump is due to weakness of the latest shirms, muscles, transplantation of the tener face lesse is not satisfactor. The print Law VD

Mebana, T. S. The End-Result in Four Count Severe Destructive Injury to the lim J for Jerid Succ. 9.3 xxi, yo

CART In this case the upper red of the ker and cetabolism body are abstitered and satest October 6, 1918. Healing had occurred by In-9s, 1911 after many operations. The pulset ise ble to walk with case. There is good stabilly all or no of aborteding. There is no pass. Heast 40 degrees, extension to yo degrees, admittal as yo degrees, extension to yo degrees, admittal as

CARE I This was case of infected convenient communited fricture of the right hap due to \$11 wound After t years of drawing and need operations the patient wore alling other when for four months and then after it a case the for four months and then after it as formal passes, most one of the second that the second the second the second that the second the second that the second tha

day thout ill effects

Can y In this case shell ound of the uper femur and acetabellum required two year ast im months! heal The prigent now has excellent may of snotion, good tabelity and so pum He with the cane Shortenmer amounts to 75 Cm.

CARE 4. This as a case of loss of the upper est of the left femur anhylous of the foot. When the left healed there as practically seemal passes motor active fiction t so degrees, and bilartical is potentially degrees from the contract of the properties of the contract of the contract

Desc case demonstrat that a fairly satisfactory result can be obtained in case of considerable had substance and prolonged infection of the lap port and engrest that extens resection of the opport of the learn in adults in justified for secret's a fected fractures and perhaps for tuberculous septic arithmis Rainay (Class MD

Cetton, F. J. Kner Lesions and Operations Band on 186 Personal Cases. Surg. Chin. 3. J.

Supply systems: This condition in v residences been or t used the knew with trius of partial tearing of the internal lateral highest. The partial tearing of the internal lateral highest of the partial tears of the internal partial tears of the partial tears of the internal tears of the partial tears of the partial tears of the partial tears of the partial tears of the rectus proton of the questioner much of the rectus proton of the questioner much of the rectus proton of the questioner much of the partial tears of the first and mustace to cause the disappearance of the fluid and maximum the tops of the musick

Synamics with demonstrable lesions. The case cited by the author showed crumpling in of the bone over erv small area of the diductor tubercle The treatment consisted in immobilizing by splint mg and strapping, and manage. After the twelfth day the effusion had almost entirely disappeared and the condition of the knee was ery much paproved. The patient is now able t walk with cretches

Chronic or subchronic synonies. This is usually due to neelected aymovitis in which too long improbabination and lack of manage and muscle exercise have produced a loose joint. The treatment conents of massage, act e exercise of the quad riceps, the use of a Thomas heel, and strapping The prognosis is usually good, but cure may not be effected until after several months. For cases which do not respond to this form of treatment, the ther suggests a toma draining into the inter-

reuscular spaces of the thigh

Chronic lucise synercist This condition, which is very rare as a chronic symmetrical synov tis due to adolescent hereditary syphilm. A case reported showed marked effusion, slight capsula thickening, and limitation of motion due to fluid There was so local heat, tenderness, or pain. The \ray examination was negative. \text{Very marked improvement followed to the country of the rest of the rest followed to the country of the rest followed to the rest followe ment followed araphenamin treatment

Arthretic with fixture Cases of arthretis with effusion are often mustaken for cases of synov tis They may be of the active infectious or mild, recurrent chromic type. Very careful massage heat, and motion are usually beneficial. In the more severe cases traction with Thomas splint or caliper

should be continued for months

Mild dry arthritis In this condition there is mustly no effection in the knee Strain is due to overweight with or thout knock knee or arthritis, but usually a th pronation of the feet. Relief is given by the Thomas heel, adhesive strapping, and supporting bandage on the lines. Reduction of about so lbs in weight ensures permanence of the CUIT

Adhenous within the joint. These are usually due t a fracture into or adjacent to the knee joint, or are the result of arthritis. In some cases the breaking up of adhesions by manipulation under anesthena followed by manage a sufficient, but IN PROFE BELETE CERES open operation to free an adherent patella is necessary. Occanonally arthroplast) a medicated

laberious outside f the knee joint Such thesees are usually due to iractures of the femur Bruement force has not been autisfactory. The best treatment as early active assisted motion and

Simple certilage dislocation. A sign of simple cartilize dislocation is locking of the knee joint so degrees short of full extension. th severe pain when extension beyond this point is attempted. Another "on is palpable cartilage on the outside of the knee level of the yount or point of definite tenderness

fast in front of the midjoint line on the inner side Cases in which locking has occurred only once should be treated conservatively. The cartilages should be removed only ben they become dislocated frequently

Fringe pincking This condition may be con-fused with locking due t dislocated cartilage Operation is indicated in both conditions only if the cartilage is doubtful. The fringe of the hyamentum alaris abould be inspected and removed also if

песентагу

Cortil ges with secondary joint changes. The patient whose case is cited gave a history of injury to the knee somt and could bear no weight on the knee w thout a culmer splint. Flemon to 5 degrees as possible a thout pain total flexio was 50 degrees. The joint was tender on palpation and showed bnormal lateral mobility. Large fat pads and both semilana cartilages were removed. In some cases splint is orn to maintain the stability of the point. The operation is generally beneficial

Vall as estheries. In this condition there is a general thickening of the postpatellar pads with overgrowth of the subsypoyual fat tresues condition may be due to hypertrophic arthritis. synovial tuberculous, osteochondritis, or repeated trauma Loose cartilages are removed together th villous hypertroping growths including masses of the luramentum slama The operation results in

considerabl amprovement

Osteochondritis dissectus This condition is true illy the result of a desecting process in the car tilage of the femoral notch which gives the to free bodies in the knee joint causing arthritic changes Operative removal gives good results

Free besites or j at mice. The author ascribes joint mice t the loosening and growth of fragments of chipped bons a thin the joint due to broken osteophytes or osteochondrius. There is history of locking and synovitis. Operati e removal usually results in cure

Contractures Joint contractures are usually due t contracture of muscle or scar teams outside the joint the result of fracture or trauma near the joint, arthritis, et In some cases the treatment consists in tenotomy of the involved tendons, cor rection by means of gradual extension with Thomas sphnt, physiotherapy etc R plured I gaments with and without disloc

ten II luxuation is present it is easily reduced if no arteries are torn. Rarely all the ligaments are ripped loose. The most important structures are the posterior crucial ligament and the internal lateral ligament. If there is greater involvement, operation is indicated, although most of the methods give only fair results. The thor's best results ere obtained by reconstructing the lateral hga ments from fascus lata t such a slant as to limit the luxation thout interfering th normal motion

Chronic patellar luxution The patella is luxuted outs and by flemon either permanently or recurrently The condition is said to be due to malformation of the femoral condyles or to knock knee. In the author's operation a long lateral incision is made to and outside of the patella and another in the bira mentous cansule of the outer sade of the patella similar but aborter inclume is made on the melde The patellar tendon is split in half and the distal end separated and passed under the intact half and sutured into the lower end of the marr cut of the capsule. The rest of this cut is overlapped 16 in and sutured. Good results were obtained in the cue cited

Pateller fracture Fracture of the potella is usually caused by direct violence. The treatment consists in open operation, suturing through the solid tendon at the side of the patella and the lateral tears and torn towners in front placed I front of the torn burse to void skin dhenous Motion is begun after immobilization by strapping for three ceks. The results are PALIFIACTORY

Ruptured quadructs tenden. This is more common in older persons and m males. It is mechant cally equivalent t fracture of the patella. Operation consuts of auturing the tendon with kangaroo teadon after freshening the surfaces. Mobilization for three cela should be followed by manage and ctive motion. After six weeks the patient can

get up R place of the patellor ligement. This is very rare condition which is equivalent to fracture of the patella Suturing & indicated Convilencence as somewhat longer than in cases of fracture but the

same functional results are obtained Assistant of the tribul tubercle. Usually the tip of the long epaphyseal tongue hich runs down the pat Har tubercie is torn away. The condition occurs and 5 years of age usually in boys between It is considered similar to Osgood Schlatter disease Non inherculant arthrelis destructive excusions There is usually roughening of the cartilage with the presence of aynovial villa Plastic excessor resulting in anky loss gives good function

Tuberculous arthritis accusion Radical incision for this condition usually results in anky loss of the affected joint and beating of the process

Jest he we and educatly excinen is advised for cases of old fractures in hich con servative treatment has been of no wail A good (unctional result is obtained after ank) loss

In certain new severe condylar fractures the author has obtused good function by remodeling the cood les t a smooth surface and removing

spars Old injuries plastic remodeling. Two cases are cated in which mahusloo of the condyles of the femmi resulted in limitation of extension of the lex The projecting portion of the femor was removed and the cury of the joint surface reconstructed sufficiently t permit complet extension

Arthroplasty The results of arthroplasty on the knee thus far have been poor The results of Path operation has been more autolactory

Osteniomy for deformity Deformity of the barn joint such as knock knee is due to irregular epopley seal growth following infection, fracture, etc. Soncutsbeom ortentomy is performed at the point of maximum deformity immediately above the senoral condyles or below the tuberouties of the tibus. The deformity is corrected and the limb immobilized in

cest for six or seven weeks Settic burse. This condition is due to infection following traums. Operation consists of free excision

and dramage Sopic points. The treatment consists in opening

the joint and irrigating with corrosive salt solution 15 000 for fifteen minutes, the sount then beaut closed. This is tensally sufficient unless there as involvement of the adjacent structures

Chercet jerals The condition neually occurs very early in locomotor taxas. The wither has seen improvement following intensive anthryphile treatment. The knee joint should be supported by a calmer spint. RUMBIES RECK, M.D.

Cook, A O Stern, W G and Rywroon. Report of the Commission Appelated by the American Orthopedic Association for the Study of Stabilished Operations on the Foot J Beer in Jan Im: 1933, 222, 35

The Commissio found that a foot ankylosed m moderate calcaneus results in heel walking with slight limp and gives a fairly serviceable foot. A moderate equippe is much better as 1th this coath tion the patient walks on both the heel and the sole, imping is absent or slight, and the raising of the beel lengthens a shortened leg

The transverse horizontal section of Davis, the open arthrodons of Hibbs and thers, and the Whit man astragalectomy result in new and simplified ankle sont the motions of which are controlled by bone feiture independent of muscle action. The first to operations cause ankylous of the tarsai hope and displacement of the foot back ard on hat is left of the astragalus, the foot being placed in moderate equipms. The Commission prefers ()

the astragalectomy of Whitman () the open opera tion of Hibbs and (a) the transverse horizontal sec tion of Davis

Persons with paralytic talipes calcaneus talipes calcaneous yes, and find or dangle foot. ther ith out area or valgus are suitable subjects for astrag alectomy and transverse horizontal section. These operations are not indicated then the call immoles are active

I cases in such there is rand heel cord the astragalus and os calos are in comparatively nor mal position, and the enters drop is confined to the anterior position of the foot harge edge of bone is removed from the head of the astragalis and the posterior articulating surface of the scaphood Ankylogs results in stable foot hich w shortened but has good fateral and ankle motion

The deformities commonly found in varies or val gus in y be corrected by removing the superfluous portions of bone when arthrodesis is effected in the various joints of the tarsus separately. In order to maintain muscle balance the necessary tenotomies and tendon transplantations can be done at the time the bone balance is corrected. Of the 250 feet ex ammed by the Communion last year a great major ity had been subjected to tenotomies and tendon transplantations, but all bad a tabilizing operation ultimately The finding might suggest that raing operation should be done in the first place but it must be borne in mind that only cases in which tendon transplantation failed a ere exam ned

The Commission considered also the various methods of treating partial and total paralysis of the domificants of the foot

Arthrodesis of the ankle sount by excesson or by This procedure usually fails to cause anky loss if the performed before the go of 4 years The external malleolus should be fractured and displaced mward to bring the three bones into close approximation Most patients were dissatisfied

th the result, chiefly because of the increased strain thrown upon the mediotarial jos t and be came they experienced difficulty in walking up and down hill and putting on and removing their shoes The latter difficulty was easily remedied by the

caring of shoes laced dos to the toes Lexer method of driving an autogenous or heterogeneous peg up through the or calcus and astragalus into the tible fails because the intra riscular portion of the peg usually becomes absorbed a thin | year

Silk lagament suspension from the tarsus to the tibes. This method is not recommended for young children as the mik may cut through the bones of the tarms and the unyielding cords cause severe dis tortion and deschibity a thithe growth if the foot and leg Good results were obtained in some cases oper ted upon in early dult life, but in there either

res or valges occurred I a few cases the all. caused suppuration for long time after the opera

tion. Therefore the use I salk ligament should be restricted to carefully selected cases of patients over

s years of age Tenodesis by the method of Putti, Gallie, or Codrylla This procedure may be used on children under 5 years of age. In some cases good results have been obtained, but there is considerable doubt as to whether the week, paraly sed tendons can hold no a drop foot throughout life The Commission reserves to decision regarding the method until

greater number of I te results have been tudied 4 Suspension I the foot by trips of fascia lata or the fascus of the leg. In the few cases studied by the Commusion the results have not been sufficient ly convincing to warrant recommendation f this

5 Excesson of diamond shaped pieces of skin or skin bone flap in the dorsum I the nick yourt. Only

temporary benefit results

6 Astragalectomy This operation has a distunctly beneficial effect in drop foot and especially in flail foot, the results being sufficiently good to war rant its use in selected cases. None of the opera tive methods considered can be confidently recom mended as a standard procedure. Lateral deform ties of paralytic feet are far more dis bling and more fremently require correction than numble dropfoot

The use of drop foot braces, such as clastic. straps fastened t the shoe spring-wire supports with a coul at the sides of the beet and the flat spring extending along the sole and up the back of the leg These are all usef I and comfortable

The Commission urges that tendon transpla ta tion be almost always supplemented by stabilization of a sufficient number of the smaller joints of the foot t prevent or correct all tendency to varus or valens deformity such deformities being of much greater importance than drop foot

RUDOLPH S REICH, M D

SURGERY OF THE SPINAL COLUMN AND CORD

Gruget Lateral Sublumation of the Third Cervical ertabra on the Fourth (Subjuvation latérale de la trumème critibe errocale sur la quatrième) Arch france belges à chier o IXF 939

It is beheved by many that incomplet luxation of the cervical vertebrae is an natomical impossi bibt) Gruget, however has treated such con dition in man so years of ge th result of fall

The signs observed about eck later were () mchastion of the head to the left and shight right rotation resembling torticallis () les tion of the left and depression of the right shoulder (1) marked curvature of the spinal column the conenty being on the left side in the region of the love donul ertebræ

Lateral displacement of the third vertebra on the fourth cervical was clearly indicated in an porterior roentgenogram, the interarticular line

appearing oblique from above downward and from right to left. This was case of the "incomplet luxation described by Cyriax, and the minor duplacement described by English writers

Continuous extenso for several day was followed by cervical extension and tractio with the head of the bed raused. After the fourth day the patient was laid flat in bed and manual reduction was ttempted This was successful The patient was then kept in extensio for forty eight hours. When he was examined three months later his condition was normal W A BEFORE

Languecker H. L. The Treatment of Painful Affections Involving the Carvical Vertebras. California Stein J M 9 3, Em, 3

The 11the classifies cases of painful affections involving the cervical criebize int three groups

The first group includes the most severe injuries and influentations, such as fractures, dislocations, bone t bertulosis, and syphilis jumobalization is the treatment indicated

Group a includes the cases of ribrits 1 these, search for local infections hould be stude.

Group a includes the becare cases in which the

cause is unknown

Meet the diagnosis has been made, adequate treatment about he gives a traver ensurement luse too. Rect is creental. Improv. next of the tone of muscular of lapamentary through its attended by local hyparizmia. Movement about the attempted early. The invitament about the completed hyperical and appropriate the contraction of the distribution about the contraction of the attempt at resource of functions in the attempt at the attempt attempt at the attempt attempt at the attempt attem

JOHN MITCHELL, M D

TA BED

Vanderput, E. A Case of I unition-Fracture of the Cerrical Spine (A propos d an cas de lexatem fract re du raches cerrical). Arth f sore befor de

The uthor reports the case of man ho sustained a cervical luxation fracture in a diving accident and died four days I fer. The accident was followed by immediate quadr plens. The paralysis of the arms was of the radicular type. Sensation remained pormal in the bead and in the first four segments of the cord but was decreased in the fifth prement and lost below the sixth. Other projects of the softery were total abolition of the trodon. ossecous, and cutaneous reflexes, retention of unne and faces, and prupum Meningral poacture showed bloody fluid. The chancel pecture was thet of a quadrolegue due to an indirect injury t the cord in olyma especially the auth segment. The I ray showed fracture of the fifth cervical ver tehrs. The rapid evolution of the chancel phenom na indicated that operation ould be useless. At a top-

front of Instited backward
Le cause of untry of the cerevical cord such as
the the probability that the patient will seem is
so slight that surrey; in not justified. In injuries of
the downl and lumber space early operation may
no minute of mediulary nationalisms. Whatever
the air of the layers, a simple decompression may
be done if the general condition primits it and it

ay the fifth vertebral body was found detached to

Girdiestone G. R. The Place of Operations for keinal Firstion in the Treatment of Pott' Discuss. Bril J Serg. 9 3 37

f ction can be presented

Gurdiestone report fifty cases of operative special factors in Pott diames which combined with the fifty cases he had previously reported pressumberily to has conclusions. If emphasizes the fact that the operative factor of the space is only pivit of the conservative treatment of Pott disease, and say great that many of the criticisms brought gainst

operath, fixation are due to the fact that cases ha e been treated by operation inhost proper sphintage without open is methods, and lithout adequate reat or architectuation.

He do slev the angular kyphone late to the ments (3) the telescoping and crowling together of the downal process, corresponding to the anomal of destruction of the bodies, and (4) the inflection of feature of the late of the segment above or that great support from the solad vertices before H points out that sprain first time a slevy, posterior and does not replace the bodies of the vertices which have been long from the effects of the dress which have been long from the effects of the dress which have been long from the effects of the dress which have been long from the effects of the dress which have been long from the effects of the dress have been a sufficient to the planting the diseased area with rest and time on beat the disease in the bodies by destinguistics.

Gerdiestose damases the different natholis de senhed and selvenated by Calot, Hibbs Alber De Quernam, Ombredante Toblarec, Gaffe and Robertons Hip, Gerera, Hossidy and Calvi, and stomany in particular the fact that De Quernas and lowest, found that after healings had occurred, graby the control of the right of a Dama arched to the control as the

the defect

I amorty-five of one hundred cases G rilations and Albeen encited of poplying great from the tibes I the split squares or to the hard lineau. For prefers the former I after cues he complyed outcophratic methods. If used mechanical motor may I cut the bonne T patients ded inhim eck. Sur died I ter one from contamed carriers and § 6 from greamful tobertolions of some

other condition

Ninety four of the cream were clean cases but as of them presented doord page showes Gardle stone lays great stress upon the fact that naterial factions must be de-pended upon for funtion mutil t least three of perferably set, possible site operation. If credits but greatly upon the site the operation. If credits but greatly upon the page of the control of the con

The a thor concludes that operations for spatal finition are in no sense rubcal. Extragal splustup of the space must be maintained continuously before operation during the operation, and after

and earth firm subdity of the affected section is search by the respection to stability of the boses and ligaments of the part, coupled with the stronghold of the part or osteoplastic mane. I Gardle stope hands the operation has been free from darger as the cases of adults and has given good stretural stability but in some of the cases of children the grift has been absorbed and in terrain which death has occurred. Therefore he concludes that is adults posterior spinal fuzzion a rigidate safe great alue but in children it is less reliable and at the same time less needed and therefore seldom if ever indicated Drynk W Children M D

Cahê J nd Galland, M Osteosynthesas in Pott Dissass (Quckracs on-sdératoss sur l'osteo synthese dans le mil de Pott) J d' kir 9 xx 383

The authors discuss the indications and contraindications for the treatment of Pott disease by the me of home transplants

Operative interference is never indicated in tuber cuben decease of the pine in children because the classical treatment is excellent anatomical and orthopedic results. Further the operator treat ment does not perm the patient to be is and about and the bone graft opposes, solid anatomical mision of bone and the establishment of therapeutic corteris, forther

In adults, operation should be restricted to those cases in which the tuberculous process has been streamed. I short, for patients not of the laboring class the classical methods of treatment are best. For those of the poorer classes home transplants may be used in order that the patient may more safely carry on his occupation without recurrence. Data II Data II Data, M. Data, M

Wheeler W I C Operation as Part of the Cost secreth Treatment of Pott's Carles Practi-

From an operative expension: I twenty -four cases the subset concludes that the bose-gail operation to cases and, board in therendons spane at slabble concludes the subset of the subse

The hyphous cannot be materially reduced by operation but an acute angle may be rounded by cetting of some of the prominent spaceus processes. Correction by pressure m 3 be tried but the use f much force a dancerous.

Abscess a not contra indication. In fact, one of the most supranag and gratilyang features in the treatment of spinal came is the rapid disappear axer of abscesses after frations of the diseased segment by bone graft. Farth, in also rapidly disappear to be contracted as a supraphed as a long indicate of services, and in regarded as a long indicate on the conservative treatment.

Expenence has show that sepass as not much to feared. When t does occur the graft seems to hive through t and ankylous occurs just the same.

Bone grating in the spine show higher percent gr of successful results than samila operations on the long bone. This is probably because the site of the graft in the spine is well removed from the discussed portion. It is thought that the grafts are not brothed and replaced. They become less dense to brothed and replaced.

for while but roentgenograms made about six months I ter show them I be more dense than before

In the cases reserved the Hibbs operation was once not noted in the others a medicified Albeet schange was used. Rib grafts were employed in the cases and tibus grafts in the others. Instead of splitting the spanous processes to make the bed for the graft the soles of the processes were decuded of peroasteum and the bone surface grouped with the The graft was then had gainst this raw sur

face and the soft trianes were sutured over it. The after treatment consisted in support on

frame in before three months, then hinsted freedom
with a spinal brace a digradually increased activity
Most of the patients were able to go back to work
at the end of Jon William A Clark, M.D.

W Hace J O Crush Fractures of the Spine. J Beasts Jent Surg 9 3, XX 8 The actule of detailed status and stade of making

This article is detailed statistical study of eighty two cases if crush fracture of the spine

Fractures in which hyperflexion or hyperextension of the spine as the causative factor as in a fall from beight, droing accidents, or the falling of weight on the back, are located in regions where the fixed portion of the spine meets a mornible portion Suty four per cent of all fractures occur in the first and second limitar vert here and 3 per cent in the

other lumber extebre. The author found that in the absence of an evident paraly as the diagnosis of fracture was not often made previous to admission to the hospital. In Morty seven cases in which the correct diagnosis was not made paralysis was present in only ne, while of the t enty cases in which the diagnosis as core

rect 75 per cent showed paralysis. The complaint of 85 per cent of the patients was pain to the level of this fracture. Pain in deep pressure over the lunckle in the spane is fairly constant sign. Deformity is invariably present at this site unless the fifth lumber in the vertebra in olved, when increased locdoms is present. Limitation of motions in present in every case and in wait major.

ty limitation of hyperextension is by far the most slushle sign of fracture I examining fractured spine, especially in late cases, point t which the upper and lower fragments never well be found when the support and

meats pivot will be found when the patient bends laterally. This is at the site of the fracture and will be point around the knuckle in the spine. I the treatment the lower fragment the cretering below the fractured verticles, is fixed by fastening the lower extremities in spring frame rating on the side has of the hospital bed and exper

upposed over is lower two thirds. When the frame is adjusted so that textends to the level of the fractured ericbes, supporting the entire lower fragment, its raised by means of serve and the piper fragment is allowed to bend posteriorly to the bed. When corrections has been

If hen correction has been continued on this bed as long as necessary new type of body east is applied This cast is applied on a horizontal frame—lith—har pressing forward of the deformer protected by their hard passabler felt, while the apper fragment is the docast space—is held horizontal and the lower fragment is thrown forward as much as the angle of the deformit. The weight of the pattern bod

SURGERY OF THE
Abrahrumaen, II I juries of the Nerwes of the

nato an oblong indow which is cut on the dorsum of the cast with its upper edge at the spex of the deformity

This cast is worn from all to t elve months, depending upon the patients age and the daration of the deformity. Internal bony fination is assecressity. D vm R Trason, M D

URGERY OF THE NERVOUS SYSTEM

Arm (Ueber Schweitigung der Armaerica) Leich

f Leier

tru 205

The a thor differenti tes bet een primits and secondary lessons of the serves, the former due to frictures and other junes ind the latter to pressure from callus formations neurams, etc. T entifix per cent of all nerve njunes in the arm are lesions of the radial nerve. The medi a mil ulnar nerves are involved in onl and 8 per cent respectively. Secondary k nona are more common in children than adults, execually in fractures of the diphysis ad near the elbow. The median and plant serves are less exposed t unjuries from fracture. Nerve leuon occur frequently also i dislocation of the humerus, ad cibos. Amone the labors g classes the open primary lessons due t nuncture in mines are the most common, hereas in children a greater number of auboutaneou lessons are observed

I the uthor opiaion every incisional ound should be samined under meetheu if a injury

of the ners in suspected
Three rises, its triported Series (2)

Leriche R. The Indications for Posterior Radicot easy Based on Twenty Fire Cases (hes nots toom de la radicotomie postéricure à propos de ingl.-raq obsert toom) Jose du ... x xx, xx, xx,

Seventeen of the t enty five cases discussed in this article were first reported in 1014. I have geventeen exises there ere four deaths. Three of the deaths Leriche believes could have been per vented by better ferchanger. Who the other patients operated upon recovered—the only ery len and slight possporentive complications.

Intriducal reductions on stage as not baserdous or difficult operations but the smooth take. I Lenche t ent if e cases I was per formed for the following indications cross of takes seven reducities, two pachyraemaptis, one pain due to neoplactic compression there is not all appropriate the control of the

Tour of the operations were cervical radicotomies nine were dorsal, fire—ere lumbar and seven—long the terminal cone—T—enty-one of the operations were intradural and foo—were extradural

Lenche did not observe the definite disappearance of talietic crises is any of his seven cases of t bes in

which reducationy as done Neither day he find the operation always beneficial in cases of riskultis. Rebellious sons seems a good indection for posterior radicationy. I cases of punish stamp benefic has had one good result and one future. For this condition he believes radicationy should be the fast resurt chard-doorsy being preferable.

I case of neuralin due to neoplastic compresion radication sonetimes gives excellent reads and 4 other times only temperary benefit if is adicated when the pums are clearly localized, but in cases of poorly localized pums is best efficacions. I quassocie paralyses, and e-peculiy in Little

I spansionly parallyses, and especially in lattle doctors extroor of the root thould not be done if there is any cerebral tains or the spansionly phonon ear are rendesced particularly in the upper highlate less severe cases great improvement can be obtained if the operation is performed at the sgs of Jor 4 years.

g or g years

The results of the operation are particularly later

and g in the spasmodic paralysis following certuin
types of meaningsits

I conclusion Lengths at tes that there need be no fear as to the solidity of the lammectonized spoul column W \ Berva

Jianu J. Contributions t the Surject of the Sympathetic Nersons System (Benney :: Sympathetic Nersons System) or the properties of the p

I three cases of dry gangreae of the leg June resected from 5 cm 1 to cm of the phenon per femoralis from Hanter canal opward "Scarpa triangle and even the pheno henoritis prefended Because of the resultant paralytic associations much more of the leg as as ed tha 10 meals

possible There as so recurrence I takes of period research the spharchage serves on their Jason extended to the spharchage serves and benefits of the spharchage and the spharchage serves and on the foreign serves of the special substantial serves of the special spharchage and the leaver current true period spharchage of the spharchage

STOKANOUT (Z)

and the efferent fibers of the solar plexus and

the pneumogastric nerve were divided In a case of glaucoma and trageminal neuralgia lumn performed a unilateral cervicothoracic sympathectomy by Jonnesco method with excellent

Elemechmidt O Scientic Phlebelgia and Scientics (Ueber Phlebalga achardica and Ischus) Kl 1 charter 9 1, 750

According t Reinhardt sciatic phlebalgit may be caused by varices within or on the surface if the nerve and involving its entire course of only

tam section The chascal symptoms are gradually dev loping pain in the foot and call fatigue and crumps, which desappear a night and when the leg is elevated. In contrast to this, the pain of sciation is severe appears suddenly first in the gluteal region, and is aggravated (Lassègue) rather than decreased when the ler is elevated in addition, there are neuriti sympt ms (sensory disturbances trophy and pressure points) Similar symptoms may be pro-

duced by secondary changes in the blood vessels to g the senate nerve due to thrombosis, phiebitis

and advancing sclerous The author reports to cuses of the latter type In one, the scratic nerve was enclosed in an indurated sheath penetrated by thrombosed vessels, while in the other there were varices around the tilisal and peronesi perves which became inflamed dicaused

severe euritic symptoms in the remon of these nerves. Both patients were cured by operation Rrum (2)

MISCELLANEOUS

CLINICAL ENTITIES-GENERAL PHYSIO-LOGICAL CONDITIONS

Krainz, W. A Case f Papillomatosis of an Abscess Cavity (Ueber cases hall on Parallomatous enter (becembochle) Frankfurt Zinder (Path o 157 m, 59

The article is a detailed histologic description of a papallary tumor the mre of fast, which de cloped during the course of twenty cars in an abscess carrity of the buttock m 40 year-old woma and as removed t operation Lapscoally worthy of notice was the markedly typical development of epithelium upon the papille. Eich as traced by the a thor t the ingrowth of the epithelium of the akm int the abecess on to The most important factor in the development of the papillie was the cothehum

Healing took place by first intention a thout re currence or the formation f metastases, according to later reports from the ttending physicia

MEYER (Z)

Nassmer E The Elective Figation of Radium Collordal Substances on Embryonic and Neophotoc Cells and Its Importance in the Dug needs and Treatment of Cancer (La fixation Sectiv des substances radiamodicadales sur les cel inim embryomnatum et miopianopum son importance dans le disgnouise et le traitement d'eancer) Bull Acad de mid Pa o Funcion 40

Wasser the director of the Swiss Radium Instit te t Geneva, reports new method for the disgrous and treatment of cancer which connects in the elective physicochemical fixation of radiumcollowial substances on embryome cells in general and especially neoplastic cells

Experiments carried out for some tim showed that, when introduced int the circulation of preg next games page the torme corpuscies of radiumcollowial substances become electryely fixed on the embryo The fixation was demonstrated by cunegraphic picture of the embryo. The a thor erified this electi e fixation in chinical cases of primary tumors and metastases by injecting radium colloidal substances both intra enously and directly mt the tumors and then examining the curre graphic images f the tumors

case reported was that of a woman with an endothelioma f the left parotid region s th meta stass in the pre auricular glands. Intravenous in sections follo ed by local insection into the glands enabled the autho t btain curregraphic pacture

of the primary tumor and second meture showing metastases at the base of the brain. Further m rections were followed by decrease in the size of the tumor and t tal clinical disappearance of the metastass

Wassmer states that the method of injecting rad um colloidal substances is entirely new Because of the affinity of the tomic and colloidal particles for embryonic and neoplastic cells it makes possible

further study of the biological chemistry [young and neoplastic protoplasm. It is graphic method which permits early diagnoses of deep acoplasms and their metastases. Because f the physicochemical frostion of the radium collowial particles on neoplasms and their metastases, it brings the curstive gent into the very center f the

neoplastic and embryonic cells F these ressons the uthor believes the method

opens up new and very fertile field in the treat ment of cancer The patient whose case is reported ultimately

died of cerebral hiemorrhage. Wassmor a sable t confirm the complet drappearance of the tumor in the parotid region and of the metastases in the neck, but he believes it is possible that the treatment by six intra coors and three local injections of radium colloid may have favored the rupture of the cerebral artery which caused death

H & BRENNA

Bulleck, F. D., and Curtis, M. R. A Transplantable Metasterizing Chondro-Rhabdo-Myo-Sarcoma of the Rat J Court Research 9 1, vil. 95

With the execution of certain mixed tumors of the testis, overy and kidney neoplasms containing striated muscle are cry uncommon n man, and only a few have been found in a mab. The rat tumor berein reported is pracently the first thabdomyous in a rodent t be recorded

The growth w found in a black and hit female rat bet ees 15 and 10 months old, one of group which h d been apenmentally infested with custicerces fasciol ins. When first observed the t mor as about the size of a nes. In the first few cells it showed practically no increase but at the end of t o months, when the nimal was mated it was slightly larger. The rat later gry buth t t young only one of buch she reared. During gest tion the tumor grew rapidly One month after gest tion fragment of tumor was removed surriculty and used for the subcultureous asocial tion of nasety three rats. The rat survived the operation thirty days, demon which period the tumor grew rapidly. Microscopic ally the growth showed rather complex tructure varying in different parts. It as composed partle of muscle cells and fibers and partly of small round or polyhedral cells suggesting embryonic cartilizes cells. These to types of cells occurred separ t ly in certain parts of the tumor but in general were freely intermixed on or the other predomination

Scattered through the tumor were I rgs and mall islands of cartulage. The trail parts of some f these lil ads consisted of differentiated cartilage ells, while the cells comprising other islands are solely embryons in type. The cartilaginous islands marked tendency to and necross showed Embedded in the tumor ere several small trabec nin of outcout tissue. The turner was nich in blood versely consists g largely of dilated capillanes

Transplantation of the tumor as socressful and n now a the eighteenth generation. In to initial difficulty of propagation this tumor resembled currenous rathe than a surrous. Of the grafts introduced subcutuneousl int the inety three rats of the first generation only three produced tumors and only by tumors ere obtained from the forty-eight rat of the second generation I the third reperation bowever the inoculation as successful in 80 per cent of the cases, and in the subsequent generations there moderat to high percentage of takes

Unlike most other rat sarcomata this tumor on transplantation grew progressively in almost every animal m bich a graft became established

I conclusion the uther describes the tumor bracky as a chondro-rhabd my sarroms of the sternum, transplentable metastasizing tumor in which cross streated muscle fibers have persuited through fifteen generations although the cartilar mons lements early lost their power of differentia-GAMMAR E BRILLEY M D tion

BLOOD

Lorbr W and Lorbr II. The Changes in the Physicochemical Structure of the Blee Plasma with Accelerated Sedimentation of the Blood Cells Following Treatment whi Irritants, Surgical Operations, and Discount (Leber die Versenderung der physikalschriemerke Strekter der Kleifscaugkeit bei beschiemigter Mei-Lorspreisersenkung au Gefolge von Reutunperha apie, characteristics Operationes and Erimateres) Zikle få pri esper Med gi kur, je

In this study the athors attempted to determine the physicochemical changes produced in the blood placema by suscettons of protein, befections, personal diseases and septic operations for this purpose they did not use the plasma flocculation reactions of Suchs and you Octtingen but employed the recourty refraction and surface tension. In all of the apenments the determinations ere made on plasma entirely free from hemoglobia to which hurselin or citrate had been added. I the ere of the Osteald accommeter the influence of temperature was chrunated by means f a thermostat kept constantly at so degrees C. Harolin was used only for the determin tion of fibringers and for pa ticularly important cases. For other determinations

one of \$5 per cent solution of sodium extra

as added to 40 c cm of blood

I allowing protein injections, aseptle operations nd diseases an increase in fibringers associated th increased acceleration of sedimentation of the blood cells was first asted. Running paradel with the acceleration of sedimentation there was conselectible moreage in the relative become of the The surface teason in the plasma was decreased. By means of the Nacgeis-Robrer tech migrae a considerable change in the relativ propor tions of albuman t globulm in favor of the later was observed constantly in the presence of accelerated sedime tation. These changes are demon strable iso in the seriem, but to considerably lem extent

Of the stimulations mentioned, reptic operations proved to be the most effective ith regard to the constancy of they effect and the strength of the reaction produced. Such regularity was not alway observed after single injections of protein physicochemical changes became more marked the more extensis the surgical interference Tirer (2)

BLOOD AND LYMPH VESSELS

Mates, R. Atteriorenous Fistula of the Femoral Yeards (Ansurlamal Varia) on Level the Origin of the Profunds Swy Clin N Am n u. 4c

The author reports the history of healed shell sound in the right thigh over which a thrill was

felt three months after the mjury Palpation showed a decrease in the pulse of the dorsalis pedis and posterior tibul arteries as compared with the left side. A slight pulsation which nes visible 236 in below Poupart a legament extended ope and and downward along the femoral vessels the superficial velos above and below the scar were decidedly enlarged when the patient stood up On palpation, an intense purring thrill was felt, which extended upward along the ilia casels and downward to the internal condyle. Amenitation typical loud revealed at the level of the scar n stole murmur which diminished in intensity posard and downward along the yearls from the scar A loud venous roar was loudest over the scar and drappeared near the umbilious above and the femoral coady les below. When the tip of the finger was pressed over the scar the pulsations and bruts ceased, showing that this was the rate of the an antercorle

With the exception of these local disturbances, the ecperal physical examination was pegative When the old scar which had remained over the ute of the arterior enous fixtula was compressed with sufficient force to stop the thrill and the pulsations. the patient became conserves of his beart best and the femoral pulse bove the anguram became slower. If the pressure was continued for long tun he became faint and the blood pressure taken simultancously with the pulse showed an increase. The instant the compression was discontinued the pulse rate rose t normal and the blood pressure fell t the original standard. This sign is designated as

Branham a brady cardiac phenomenon The investigation of the efficiency of the collateral circulation was carried out first by compression the femoral artery mamediately above the aneution and then by compressing both essels with

compressor applied directly over the fistula the hmb was completely exampunated p to the level of the fistula by clastic compression with an Esmarch bandage and the bandage kept in place for ten minutes while the common femoral vessels ere occluded by compression, it was demonstrated that the colleteral circulation had developed sufscently to maintain living circulation in the toes, foot, and leg in spite of the complet occlusion of the main venels. This was demonstrated by a tching

the hypersense are which followed the removal of an clastic bandage and constructor pplied from the toes to the level of the aneurumal communica bes On removal of the bandage while the artery and vem were firmly compressed at the sate of the anartomous the hypersemic w we was seen to rush down the thigh and to the middle of the leg with characteristic reduces, and then a th less intensity over the lower leg and foot langering and spreading over these parts and gradually replacing the waxy pallor of the extanguination

The operation was performed as follows

1 An elastic bandage and constructor was applied from the toes to the upper third of the thigh boy Poopurt s lignment and dow below the apex

of Scarpa tnangle

1 Pourpart Brament was exposed and the falci

form process dryaded The common femoral artery and vein were

isolated and the main artery and vein dissected to the level of the anastomore, which was recognized as hard, callous mass or bridge of sonr firmly adherent to the vessels, binding and lusing them together in dense, composite mass. The profunds recry wa actively feeding the fistula, the ein also was sup

phed by its profunds branch

The profunds was then recognized at its origin from the common femoral, about 14 in from the anastomore and on the posterio side of the ritery The em lan accommanded it. It was too deep t mointe muckly and in order to control it a flexible Doven clamp was applied to compress the profunds maxway between its origin and the fistula thus effects ely preventing the recurrent stream of the profunds from reaching the fistula

6 The thick callons margin of the sca tissue which connected the two vessels was extised. The adventitia was very weak at this point. A few silk sutures were passed through the adventitia (not perforating the artery) to reinforce the weal, spot When the sutures were tightened the bulge completely despocated. The fistulous opening in the vein

as entured with a fine milliner peedle

7 The falciform legament was not sutured, go me dditional cover to the artery and vein hyperemic reaction which had spread rapidly to the toes after the removal of the constrictor left behind it uniform pink normal, living color. The pedal pulses were felt just as before the operation A few minutes after the separation of the vessels and the restoration of the circulation to its normal channel the radial pulse rose rapidly from oo t

then to 20 nd finally reached the maximum speed of 30 After ten munites, it descended until

t reached the level of 8 and later 100 It is possible that the sudden displacement of

large olume of blood int the hmb release of the constructor may have contributed t the post operative tachycardia through momentary f ll m the blood pressure

Because of the collateral carculation through th branches of the internal iliac, t is only by direct compression of the abdominal sorts her, the hefurcation or elastic circula compression around the want when the subject is thin that completely eschemic field can be obtained in the iliofemoral remon.

A few fundament I guiding principles t be ob served are

The suppression of the communicating channel or fast la without sacrifice of the cracks in vol. ed

Prophylactic hemostatic control

Knowledge of the behavior of the peripheral carculation on suppression of the carculation in the main casels at the sit of the fist la henever this a accemble t compression

MORRE II KARS MID

14

Leriche R. The Technique of Peri Arterial Sam pathectomy and Some New Indications (La technique et quelques adications non elles de l sympathectome perintenelle) Press and I'm • 2. ch

A number of investig tors who h performed experimental peri arteri les aprithectors unon a male have failed to observ the immed t decrease in the size of the lessel described by Lenche Leriche answers these entirement by station that

th one exception, he too has pener beened the phenomenon in a 1 of the usual laborators amonths One dog upon which he performed the operation showed immediat shrink as of the arters but this could never be repeated. Lenche believes therefore that the result of pen arteral sympathectomy ca-

he turked only manage

When the operation is curformed mon normal arteries it is a thout danger. When the well are thermatous and especiall in cases of senile gangrene great conservation is necessary. I the beginning Leriche regarded to necessary to pe form the s mp thectoms er 8 t s m of the essel surfac but he now less us the tent of the oneration

Particular tients is called to the morehal local constriction of the event the second repermheral asorblatation both follow the amounthetic pleans bout the civel They t phenomen distinguish the percurter I symptthectoms from sample I rul denudation I ollo ing the operation there is definit perapher l avoditatation 1th nureuse in the arternal nees sure adanck tion of temperature In the thor on mon this operation is policible to microus conditions, dermatology in particul and discuses of the clands of internal secretion conecially those mornited the decrease of sucretion Los ID no VII

Mayo, W. J. The Significance of Lymphatic In

volvement in Infections J in V t lva 1 the light of amous expensences in the Chaic the a thor study of the relation of the 1 mphatics t the ultimat prognosis in tuberculosis evolulis and cancer all introduced from thout through the protects mechan smofthe bod and t

tuberculous and sphile he sientifishle foreign ansat we got Il tates th t remember (kahem original observation that the source of go en infection in he det cted if the sentinel lymphatic gland first showing plargement can be located

Bearedka has confirmed the experimental ork of Norted on anthrix Norted demonst ted that rablets and gunca page tolerat large umbers of anthrax bacilla injected directly int the blood or the perstoneal cavity athout contamin ting the cut prous treues, amounts hich ould care. (til anthrus infection if injected int the skin troops hich are rich in lymphatic. This show

that there is definit relation between the nie of the infecting organisms and their toric effect, and d schools an in iting field for research

Many of the most ble exponents of the treatment of Jubi realous believe that if it is nowable to remove the primary t berculous focus here the bardle cut r the protective mechanism of the buch become ad pred and first involve the humbitie system, the accordary processes. If there's he tendered much more amenable to treatment. These in estigators evidently believe that, as Rosenon has found t he the case th ma t nes of hartens. the stray of tubercle breilly becomes roure or less specific 1, the individual Spread emergence in the remov I I localised I berculous deposits pres work stabilit t this courses

The fact in relation t spirochetal anolyment of the hamph ties are less ours to scrittan but evidence shows that in high percentige of crees the I much works fail perm penth to check the progress of the disease. There is much evidence uggesting that the glands ma act as secondar-lies in the distribution I sometheres, hile the defense reaction des fonced by their presence in the lymph podes is t considerable extent protects. arunet the action of remedial acents. We know that n the spleen, buck is I minhoul orang sourb tes are protected around remedial agents under

ri a conditions that a arrest in progressive philis and remarkable improvement in the cuts whent namus follow the removal of the soleca, and that in our hicker sometheter are to be found in the striken

Rosenna observations and experiments show the the specifically of occupants relation to their secondary effects ppl t syph he Fulteen anetics of spurchartes has been found experimentally, each wem ago, with individual characteristics. but on the hyung amond as ell as in the test be show ı b

I rom arrows in estimations made to determine the altimat result following operation for carry nome printiculari those of Seatrunk and Bloodgood t can be still that the corability of cancer follower, operation for growths high can be locally removed depends more on the ghadular in observent than on ther one factor. It would be conservated to

that t o-thirds of all cases of remon ble cancers in high there is no glandular savol ement will remain cured and death doc t subsequent local tension or blood transmission. ill result in only our third

One mat even this other things being equal the prospects of cure of cancer depend more upon the humph the reclamess of the part affected than upon an other one factor. In from \$0 t 85 per ent of cases of caseer of the body of the uterm hack is poor in lymphatics hysterectomy results

in fiv) ar cure but in cases of cuscer of the cer which bus nich lymphatic supply t gives five year cure in only 3 per cunt Because of the sparseness of the lymphatics a fiv year cure follow

operation in 50 per cent of the cases of expeer of the large intestina. Incurability of carci oma of the colon is more often due t secondaries in the liver caused by emboh broken of from cancer infected

enous thrombs than from carcinoma of the gland-In carcinoma of the stomach, thich has a rich supply of hymphatics, a cure is obtained by radical opera-

tion in only 25 per cent of the cases

Twenty years ago Charles H M emphasized the fact that the homehouse emphasued the fact that the lymphatics reach the height of their activity in adolescence and like the tonuls, the where, and other lymphoul structures slow! retro This fact explains the relatic curability decade by decade of carcinoma in the aged as contrasted a th the rapid growth of mal gnant ducase m the young

The toxic agents are commonly distributed three ways through the blood, the distribution being exceedingly raped through the lymphatics the distribution being slowe and by local extension

from pathologic leaon

The arternal part of the capallary has greater prus sure than the tasses, and the tenues ha greater pressure than the coors part. The point should be emphasized that normally the blood capillaries pack up only molecular batances or extremel fin subdivisions, soluble in a ter below the colloid dimensions With the exception of the gastro intestinal tract and h er (portal stem) the blood capillaries are not normally pervious t colloidal substances, but these larger particles are taken up by the endothelial cells which act as phagocytes and by amerbood movements carry them int the lymphatics. Generally it is the function of the lymphatics as beorbents to pick up material substances insoluble in a ter such as bacteria pro toros, and cancer cells, which are too large to enter the blood capillaries. This biorption is flected through the gency I phagocytes which reach the haphatics by dispedens. The reactions in the lymph nodes represent the struggle of the gland to detoricat the pathologic gents

There are no hymphatics in the liver other than in the portal connectry tames spaces. The star shaped cells of Kupfler are endothehal cells a th paragocytic properties hinny the blood che neland somes of the her. There is very little evidence to show that Kupfler cells differ in function from sumlar phagocy tic endothelial cells liming the blood sommes in the spleen lymph nodes and ther or

The voluntary muscle have no lymphatics out side the connectry thance spaces if the muscle sheaths, fact which accounts for their remarkable remitance t infection

Herring and McAught conclude thit the lym. phatics are probably not so umerous as is ften behaved, and that they re almost all ye confined to the true connective tusties. They have show that the hymphatics are concerned to the absorption of solah, and material which is insoluble in

nater while the blood capellaries are concerned mainh with the absorption f m terril which is soluble in a ter

The influence of secondary septic infection on the h moh tic manifestations of tuberculoss, syphilis, and carcinoma can hardly be overestimated. The t berculous nationt seldom dies from tuberculous unless the infectious prod cts re confined, producing injurious pressure as on the brain death results rather from the associated sepsis \" ben there are sentic complications of tuberculous processes which are removable the prospect of cur or improvement is greath, enhanced. In cases I tuberculous it is en importa t to eradicat all foci of infection in

tonuls teeth etc

I as philes the prospect of successful lymphatic defense is not good, and greater or small it inher of sparochattes escape from the lymphatic gla de into the circulation. Undoubtedly there is more or less indi idual minunity t syphilis, but permanent ment of the condition depends largely on specific medication, such as arephanemin and mercury rather than on spontaneously produced immunization. The removal of foci of infection, and septic complications of syphilitic infection has been show t be of great influence in aiding the arrest of th

decase by povormate treatment In cancer the prospect of successful glandular del me granst the extension of the disease is ex credingly poor. There is reason to believe that in individual cases there is certain immunity t

(limical a d pathologic aperience teaches that in Is see majority of cases caremomatous involvment of glands means incurability f the disease It is true that glandula defense may be efficient for prolonged period, but when the lymphatics re in ohed the cancerous process ultimate cure is co fined to small group f cases

Experience has taught us the ad mability of removing the primary source f the disease wherever bether or not all of the involved lymph nodes ca be exterpated especiall if the disease is situated in septic region such as the stom ch intestines and rectum. A pulliative resection, even f all the enlarged glands cannot be removed, will often add three years or more of comfortable exist ence The other has had patients for whom pullative resection of the tom ch was performed a thout removal of all the infected glands, who li ed for three or more years in comfort and pourent health. This occurred also in cases in which the liver co tamed metastatic carcinomatous nodules. Pallints operations which remove the primary source of the discuss may permit the body defense to exect tafil trength on the glandular and ther accordery lessons

Not all enlarged glands associated with cancer especially in septic situations such as the gastrotestmal tract, are due to carcinoma. The glands may enlarge if benign lesson, such as a chronic ulcer precedes the carcinomatous change. Chronic separs involving the glands is not infrequent; the glands may become so extremely hard as to appear malguant. This condition is quite constant in car chroma of the large intestinas.

SURGICAL DIAGNOSIS, PATRIOLOGY

Churchman, J. W. The Reverse Belective Bacteriostatic Action of Acid Fuchan, J. F. for Mrd 431 zxvin,

The selective bacterionatic curvity of gentian violet is now well established fact. If bacteria are exposed t this dre and phinted on plain agar all the more common Gram-positive spore-beauing aerobos are killed even by relatively abort expositre. What is true of gestian noted is three also in greater or less degree of their banc dyes of the triphen limethans from

The term reverse selective activity is used in this article to indicate bacteriostatic property whose selective feature is the reverse of that of senting volet

The ther discusses the activity of send fuchsin and allied subphonated substances under three headlines, was penetration chemical affinity and method

of sometion

r Penetration The samplest explanation for the behavior of gentian solet and acad fuchsin toward bacters is that the bole process is simply selective penetration Gentian solet certainly penetrates Gram positive bacteria, which I kills, more readily than Gram negative bacteria, which it does not kill That is to say it penetrates the living organisms tests of its staining power on fixed smears ar of no value in this connection. The author found that gentian violet kills spores although it penetrates them little if at all, and by longer asposure may be made to penetrat Gram negative bacters which grow even when deeply stained. While under ordinary conditions f experiment, gentian violet a non tone for Gram negative organisms, I may be made toxic for them by shightly increasing the temperature And fucion also penetrates Gram positive spore bearers almost as reachly as t penetrates those hich are Gram negative but it kills the latter and marcs the former

Chemical affairs. That the reverse selective settings of and forchins as in some way connected with the SO, raducal in a molecule is atrongly suggested by the results of experiments. The attention might depend not so much on the presence of the sulphonor group as on the method of its bondpain, although it is exhibited by substances such as directivities and in which the SO, group is firmly trached, as cell as by substances such as sulphonic od, in which the bonding is very wank.

3 Jonustion The method of somestion of the two groups of dyes whose action has been tudied may explain their behavior. The fact that one group is basic and the their is and is suggestive. If the evolution is correct, Grum posture spore basic and Gram-negatives differ in their hydrogen wates.

The author summarises the results of an expenments as follows

1. Acid furthern possesses a bacterioidal roser

which is selective between Gram-negative and Gram positive spore bearing aeroble organisms. The sesective feature is the reverse of that of gestina violet.

3 This teverae selectry activity is possessed also by simpler sulphonated substances and appears to be dependent in some way on the presence of 50s radicals.

 Selective penetration, if at all concerned in the behavior of gentlan violet and acid fachum toward

becters must play my more rôle

4. In the case of gentan volet the power to left
organisms and the power to prevent their growth
run partillel so far as the selective feature a case
cerned. In the case of acid factors, the bate
routatte and bretericidal selective features do not
run parallel.

5. Beclibs pyocyanem, an organism resistant is gentum violet, is susceptible to acid fuchsit. This organism is the cause of annoying and presents wound infortions. The observations on the effect of the sulphymatrid substances may suggest a method of controlling these infections.

Corner E Better, M.D.

Banting, F. G. Campbell, W. R., and Fischer, A. Further Clinical Experience with Insulin (Pancrastic Extracts) in the Transment of Disherts Mullium, Res M. J. 2021. 4, J. 2021.

The withors have treated over fifty cases of disbetes mellium a th menh. The most strains at all some statement of the properties of the patients are the statement of site and the design of mealin so that the amount as sufficient to mility the postpareads hyperployment and yet insufficient to cause a darperous lowering of the blood sugar.

At the end of the preliminary period of obsertion on a fined due the amount of time accurred or the majority of the patients with severe dubets we furly constant. The determination as most valuable as an advantion of the amount of insulin to be enployed. In certain cases however the shally exertion (singer varied and it was impossible to derivment the proper mittal does not suppossible to demand the proper mittal does not be the small of the standard of the standard and the standard and the standard state does not increase it gradually whill the desired effect a soliton.

After the patients are freed from phosons and totass they experimented in an analysis besiration. As rule they then left so of little they demanded increased tool because of desire to case, case. Other factors which must be decided on the patients asset mattales, each must be according to the patients of the patients of the patients of the attain them, also to but extent work should be attain them, also to but extent work should be allowed. I the case of tot the patients it seemed in who to allow an increase in weight, reduction of the eight was effected by decreasing the fit intike. In the cases of emacrated patients some increase in eight was believed desirable on account if the

eight was believed desirable on account 1 the amounted improvement in the general condition, resistance to infection et even though in increased amount of insulin was required. The results of the

experiments are summarized as follows

Under irretment with mention in cases not otherwise temenable to texturent physicisms a shot labeld lettones disappear from the urine and the blood the blood of supra in mariedly reduced and nanutaned it normal levels the alkali reserve and areals carbon droude mease of acidous and course return to normal the respectatory quotient above and the carbon and a proposed of abotics and course and the carbon also proposed of daubetes mellitus are relieved, well marked clinical improvement being noted.

2 Insuling specifi in the treatment of diabetic

3 Hypoghycemic reactions following the diministration of insulm are relieved by the administration of carbobydrates and by the injection of epinephrin Grosco E British M D

Terrell, W. J. Treatment by Disthermy Brill HJ 19-3, 1, 43

The first effect of dathermy is an increase in the important of the part treated, the later effects are relatation of the times and dilation of the blood capity to the part treated. The therapeuts effects of authority as therefore explained by the lower of dathermy are therefore explained by the lower with the relief [pain, and the improved particular the pain of the part who will be part to the part treated by the part treated of parts above blood respit's has been deficient.

It is in the relief of spains and pressure, and therefore of pain, that dualterny finds one I to important indications in clinical practice. Neutrition deep saired pain such as that associated with dymenorthes, the spains of a surfer excited by the passage of calculas, the hypertonneity if the hunder models in fundance, or of the neck models in the policy of the meschair models of the passage of calculas, the hypertonneity if the latinus, the collisions of the meschair models in models in the policy of the meschair models of the collisions are proposed to the mescale register of the passage of the method and often conditions improve ear much because of the mitritional effects of the increased blood reply?

In surpeal dathermy the heat is concentrated on one spot, while in the medical pplications it is distributed oner large area. Surpeal dathermy differs from the destruction of tissue by heated urons or the Paquelin cautery in that, when properly pplied, it effects destruction by heat congulation

rather than by charring or incineration Latra encal growths, hemorrhoids, beings or

analogant superficial growths loops modes, ensubgrants superficial growths loops modes, enhighd turnsh, next, to are smalled for this treat ment. Dathermy is also a delicat and efficient method for depulation strent Kas MD

EMPERIMENTAL SURGERY AND SURGICAL ANATOMY

Gasul R Homoplastic Transplantation of Explants from Adul Frog. Skin (Homoplastech Transplantation von Explusione aus crwichscher Frachhant) Desirale sed Wekswise 9 2, xivm, 61

The author placed frog' skin in the plasma of the frog' st, cheken, and guices pg, and in human blood plasma, and after varying intervals grafted this tissue upon the animal in whose serum t was placed

The transplantation to the frog was successful the remaining to called bomoplastic transplants after three t five days of poparent healing, were desquamated. The thor draws the conclusion nevertheless that the superficial tuses in a heterogeneous medium develops hierogeneous characteristics, and consider it all worth while to determine whether heteroplastic tissue in a homogeneous medium will act as homoplastic tissue.

Torrace, L. The Accumulation in the Peritoneal Carity of Gasse Injected into the Veins (Soil accumolo nella cavità pentioneals du gas mettat accumolo Reference med 9 parviu, 195

In a previous article the author reported experiments demonstrating that rygen myeried in it be jugular vein may accumulate in the pentioneal cavity. In this article he states that the same phenomenon occurs whe mitrogen and carbon dordes are myeted. The experiments were made on guines pags. The only important difference observed that the animals doed much more quickly following the injecting of the two gazes than after the injection of exygen.

Previous observes believed that the superior gas traverses the polimonary cords, spreads to the left heart and reaches the subpertioneal asculit territory through the attental network. Torrace believes the mechanism may be different because in many cases a very large quantity of gas is found in the inferior versa cava and its branches (openally the rural versa) as compared with that found in the previous cases of the rural versa, it is compared with that found in the rural versa, but the previous control to the ruper of gas which can be made to collect in our great versa which can be made to collect in the first increasing the pressure and direction of the inject tion compares well with that contained in the left heart and the attents

The assumption seems permanile that the rasreaches the right sauriels from the superior vena cave whence it spreads into the underlying ventrade and then passes into the inferior one cave and by the retrograde route into the senious system of the lower particular body. In time way it reaches the subparticular to the control of the lower of the particular to the control of the lower of the of cutter the peritocol cavity by passes of the the enoise will. This were as apported by the fact that the phenomenon can be produced in the cade or "A Eurevay". Olivier E. The Topography of the Nervas of the Brachtal Pleyus and Arillary Vessels at the Entrance inter the Solodaricaler Space (Notes are is teographic deep north depictors brachal etc. or is teographic deep north depictors brachal etc. are interested in the control of the control of the states of the control of the control of the control describing. Press wild Far at the forting to

The divergence of opision relative for the anxioms circulation of the cortis of the brachal please to the saility vessels led the author to investigat this excusion. Opposite the first in the anility actory is strusted lateral to the vena and is separated from the subclavacinar muscle and the vena by the nerve to the pectoralis mape muscle. At this point it is very difficult to ligate the arriver as it is partially overlapped by the encedually not slopely sure cateful trailly in the medial and posterior critical trailing to the arriver and are ministely board together the lateral to the arriver and are ministely board together.

Datall they gradually course from thost method in the an aspectical to deeper plane. The lateral cord is most imperficial closely different to the under surface of the mobil-surcular massle and in the same plane as the large subchroniar lying plane plane plane as the large subchroniar lying plane pl

In lighting the artery beneath the clavicle it is therefore necessary to exercise great cure in separating the overlying trectures and in passing the lighting to old injuring the posterior cord of the lighting the posterior cord of the

Felix, W. Anatomical, Experimental, and Clinical Invarigations Concerning the Phrenic Nerve and the Instruction of the Despiragins (10a tomache, experimentally and Islancia Univarian sugas abort dee Phrenous and soft da E cutfelianservation). Desirak Tarke f Chr. 0 day, 44.

In the present research the other has brought forward the Globrong questions () To hat viscers does the phrenc nerve furnish the sensory core supply and what is the nature of this sensition? () What is the significance of the consection between the phrence and sympathetic () How is the moscaliture of the displaying the sensor core than 10. On this typical section of the phrene nerve to possible that it includes it accession nerves which court as frequent variations?

The anatomical in estigations undertaken t and er the operations consisted in following the course and distribution of the plantaic nerve in series of human embryos and m attempting to determine its communications with other series I addition the author g es: renew from the hieral re of the variations occurring in the course of the phrence, and of their topography from surpricial standpoint

The results of these investigations are sum

manued in the following statements

1 The phrime nerve formabes the smary sensopply to the daphragmants plears and to be supply to the daphragmant to plear as do not any branches to the personation. The daphrag matter plears and the pertonents covering the daphragm contain sensory Brest from the phrime nervolly in their control personal personal particularly in the humber portions.

In the neck the phrenic acre recture one more sould branches from pherm (there are more sould branches from pherm (there are presented whether a present phermally which is primarily significant and all both less upon the declared the particular than the first the factor of the particular from the last curvatal and first them can exercit at part in the formation of the supplicant pherms, the branches of the pherm letter may contain speak the the pherms nerve may contain speak fibers in addition their principal is imputhely commonent.

1. In the subpertioned connects there of the daphragm principally in the hasbar are the phrene neare anatomores in the population that the properties are all the properties are that point there is no mentally we pathette ganglionated pleans called the "pleans phreness". Branches of the cotinc pleans, the phrene ganghou, and emacrous sympathetic pagin participate in its formation.

A Some all the branches of the phresh serve which has sentory endings in the serves correspo of the dusphingen communicate with the grapithetic, it is possible that the service hundres of the phresh serve are formed of strong-these formform. Here of the motor branches of the possificient serves of the motor branches of the possition of the properties of the possibility of the that the sympathetic also cannot fiber for the maculature of the dusphingen.

continue of the duplingin § I its entire course the phresse nerve contains non-meduflated sympathetic fibers. They be useful in bundles in the periphery of sta trains one action.

6 The lowest intercontal nerves (english to resitt) take part in the sensory uncervation of both tescous coverage of the displange. They meet altribbon his strip spoot that portion of the displange which takes origin from the ribe.

7 The twelfth intercontal nerve supplies motor fibers t the scripton of the disphragan country from the tellit in This may also be established embryologically since the notated sharner of the scripting in case of coagenital bernio of the disphragan points t spend sincer thos.

The uthor gives the following summary of the ristons and topography of the phrene acri among the variations of the phrene acri

there are two of especial importance for the surgeon first certain portions of the phrene trusk may take an abnormal course (accessory phrenic) and therefore are not divided in section of the phrenic nerve. Secondly these cressory nerves may tal. the form of a single nery at the lateral border of the scalenus anticus. This is rare variation. A number of anatomical facts suggest that the peratry exposure of the phrenic nerve above the omoby ord muscle is more practical than that below

The chancal part of the work ttempts to ans er the following questions () What is the basis of the generally accepted conception as t the sensor) function of the phrenic pers () What is the sig nificance of the connection between the sympathetic and phreme nerves (1) I using local angesthesia in intrathoracic operations must the phrenic nerv be blocked in order to amesthetize the parietal pleura, the perscardium and the perstoneum cover-ing the disphragm (4) Can section of the phrenic ners be so modified that all of its motor fibers as

Il as those of the ecessors phreme nerves for the ball of the disphragm concerned will be divided On the basis f his on experimental investigations with stimulation of the central stump fter section of the phrenic nery and from his own clima cal observations the athor concludes that the phrenic perv is like to transmit impulses central ard, and that this is the explanation of the long recognized shoulder pains in affections involving the course and distribution f the phrenic nerv Pain is the summit of the disphragm and in the pper abdomen on the ther hand, as t be ascribed not to the phrenic nerve but t the intercontal nerves Moreover the the comes t the com clusion that the sensory function of the phrenic depends pon the sympathetic fibers it contains. A stimulation f the sympathetic serous endings f the phrenic nerve in the diaphragm is followed by the peripheral projection of sensation in the region of the supractavicular erves of the central nervous system Upon stimulation f these sympathetic abers of the phreme pery depend also the f quently occurring abnormal contractions of the dia phragm as, for example in amgultus. The ansacr t Onestion 3 follow from the results of the ana tomical investigations

Finally upon the basis of twenty-eight cases among them ten cases 1th an eccasory phrenic nerve on buch sections of the phrenic ith sub sequent exarests (extrepation of the peripheral stump from the thorax) was carried out, this method is recommended as the satest t recure paralysis of half of the draphragm MEYER (Z)

ROBRIGHNOLOGY AND RADIUM THERAPY

Schmitz, II A Summary of the Determination of X Ray Intensities J Rol of 913, 17

In previous communication the ther report ed ravestigations made by himself with regard to roentgen ray intensities. These investigations ere carried out to determine method of treat ment for deep caremomata such ould assure the

polication of roentgen rays of a sufficient intensity to cause degeneration or death of the cancer growth The constant factors were a maximum kilovoltage f 30 determined a th sphere gap in series a th milhamperage f 5 and the tube terminals,

broad focus Cookdge t be 8 cm in diameter. The rable factors were the distances from the focus or target of the tube t the urf ce of th kin, the ports of try and the filter A summary of the results brained as given in tables and the conclusions reached t that time are again presented

With the collaboration if B chem the investigations ha e been extended to crest kilovoltages of to 75 200 and 20 The results e shown in table. The clinical polication of these results and economic considerations, viz. the saying of the tubes by the a ordance of large loads, led to the adoptio of the following factors maximum kilo oltage 200 milliamperage 5 focal ski dista ce, 50 cm field, 20 to 30 cm square filter mm cop-per plus mm aluminum. The umber i fields is t an anterior and posterio It is necessary only t determine the anteroposterior diameter The dvantages gamed by the newer method are

f Shortening f the time duration f the appli-tion f the roentgen ray. If 5 ms are used the t ofield polication consumes from three to four hours The method using maximum kilovoltage of 30 consumes from t elve to fourteen hours

Radiation archness is not nearly as severe ben the maximum kilovoltage is soo as when t is 150 Apparently the destruction of the blood corpuscles nd normal transces is less severe than a th the old method 3 The tumor is more rainedly resorbed evidently

because of the greater biological action of the short roentgen ray. It must be assumed, though t cannot t be proved that the shorter the wave length of the radiation the more intense the biologic cal ction on the tumor cells. The gamma rays of radium ba the shortest we length f any radia tio known Gamma rays of radio ctive substances cause much more rapid egression of cancer finner than any roentgen ray produced so fa The same intensities f radiation may be

losely reproduced if the same factors that is, kilooltage focus skin distance filter size f field and tube are employed. It is dynable however t determine the duration f the application carefully for each transformer and for each tube

ADDLER HARTENS M.D.

Glasser O Newer Investigations f the Problem of Roentgen-Ray Domge Am J Reculptud 0 t

I the investigations reported sharp distinction was maintained bet een the problems f beolut domage and those of relative (practical) domage The author states that the solution of the problem of absol te or scientific dosage on the basis f the mechanism of ray effect should lead t the con struction of an ideal dose-measuring apparatus

Mention is made of pervisors work done along the same line. A detailed description of sometion chambers used in the investigations is given. The results are presented by curves. Most of the subject matter of the article is highly technical and considered from the viewpoint of the physicist rather than that of the physician.

Pallia, G. Isolization Messurements Am J. Recalgrand 0.3 42

ADDITE HARTONS, M.D.

During the last few years sometion measurements has assumed conselectable importance in radiation therapy. In order that in fine there is not better that the manufactured bright the contract the sammatized bright the sammatized bright the sammatized bright the cereital facts of such measurements. If defines towards and sometion currents the offsets towards and sometion out retails therefore kength and discribes in detail measuring maximum that off the definition of the same there was produced by radiations from radium and reent gen rays.

It is very probable that the bological effects of radiation are closely related to the sourches perduced the tissues irradiated. As the ionistatio cannot be measured directly the ttempt is made to correlate bological effects and compation in the

air of an ionization chamber

In our apparent content of the that to continue the content of the

Smithies, F: The Necessity for Caution in the Employment f High-Voltage Roentjen Rays es a Therapeutic Agent Agamat Malignan Decesse Acute Adrenal Insufficiency and Death as Sequent. Sept Gyon & Olso 9 3

Medical hierature contains vary few if any warnings against the new high-voltage receipters warnings against the new high-voltage receipters thereby Articles are concerned chiefly with the gross effects of the treatment upon the neoplature groung scant titention to pathologic changes in tissures part from those in which tignors are situated or to the clusted phenomena observable on cancer holds.

The case reported by Smithan was that of man \$\pi\$ years of gar who fell on its back from horse. As sorteness of the back persasted, room programs were made. The chaptons as early oftensarrom. Roentgen therapy with a voltage of about \$\pi\$ ooo was advested and scengted. Three chances larting several bours at least \$^4\$ were given \$\pi\$ far as could be ascertained one treatment was given through and through from the back, directly over the supposedly serromatous area, and two cross firs treatments were given from the back at an angle of about 60 degrees t the spore. The patient was then sent home.

There were no immediate ill effects, but within month symptoms which became programmely worse led t a diagnosis of Addison's diagnosis.

occurred within four months

In his risums the author states that instance as acute or "risumant Addison syndrous air rure and that it is most unusual for the cheans to develop after the age of you for death to occur within year. It appears to Smithes increased that is the case reported the patients in faither. The many is in good health when he someword has not as the property of the presence of the control of the contro

The proximity of the advanals to the areas treated by the high-voltage rocatigen ray for long timeintervals attentionly suggests that the treatment is responsible for the acute collapse of adrenal fraction and doubtless for the destruction of chronalis treate.

Unfortunately autopay was not permitted
Apones Harriso, M.D.

Gayland, II R and Stenstroem, K W Compara-

the Measurements Between Radium and X Rays Concerning Energy Absorbed at Dopth Am J Received 924, 56 Having at their disposal an adequate amount of

radium, and rootigo-say apparaise capible of on tensors operation 1 soo,oor volts, the satest tempted to determine the richts prestrater quality of these its agreeded by messeroments at aminer distances and similar distribution. Distances are supported to the description price by Fred rolls secondly to the description price by Fred rolls of the description of the description in detail and the results tabulated.

The authors conclude that for external radiation such large amounts of radium ould be required to compete the casting rocatigen equipment that the cost would be probabitive. Moreover the difficulty of obtaining despite protection from such large amounts would constitut an insurmountable obtractive.

In now instance moderate amounts of redeme properly arranged packs will be found to meet aprend combiness better than the routgers at but these cases are few. We the tempera may be the cases are few. We the tempera each which may be expected in the near fature, the feed of sactimess of the radiomal pack of moderate are all be increased. The advantages of the contage rays apply only to external radiation. I can which the growth can be reached and radions or manaster of radiom can be planted into the rob-

stance of the tumor the rocatgen ray cannot displace radium, but they may be usefully combined with the implantation ADOLFH HARTEND, M.D.

Daland, E. M. Radium Treatment of Keloids Surg G or & Obst 923 XXVI, 63

Many methods of treatment have been tried in the attempt to find a cure for keloadril growths, but until the appearance of light therapy some was satformly satisfactory. The Finner ray protainty effective and the reentgen ray more so, but in the opinion of the author radium is the best therapeuts agreat thus far discovered.

Fifty eight cases are discussed in this article Forty eight were treated with radium alone. Many different methods of treatment were tried t ascer tain bich ould yield the best results. It was noted that there was fairly definite relationship between the age of | L loud and the amount of radution necessary t eradicate it K loids in children responded more quickly t treatment than those in adults. The majority of the dults were treated with steel picketed tubes laid directly on the lesion or raned on to 5 mm of game. The average dose per tube was 5 mc hrs and the a erage number of treatments, six N 1800 cases required exactly the same dosage I some, I me his caused very little reaction, while in others 30 mc hrs caused only sheld reduces. Occasionally o cmm of silver was used ben the unfiltered tube caused accessive reaction

Ten of the forty-eight cases are still under treat ment. In t enty-six of the others the lesson has been completely destroyed. Three patients ceased treatment before sufficient number of polications had been made. In t cases the results were unsatudactory as the keloids, which ere of long duration, were treated with too beavy filtration There have been no recurrences, either in the cases treated by absorption doses or m those treated t actual destruction of the lesson. In two cases, ew keloids developed near the old ones. L. etc. case treated as benefited The first evidence of relief was the development of certain degree f aniesthesia in the lesson. Later the tching ad pulling sensation ceased Finally there was softening of the sca-In the cases treated th absorption doses there was less variation from the normal color of the skin-In a few of the cases treated with ulcerating doses there was telanguectasis, but this was by no means alway. eccurla

The author draws the following conclusions

I it seems probable that every kelood can be destroyed by radium if sufficient dose is used mm) abould be used for

keloads of recent origin in the cases of children, in the cases of persons with dark complexion, and in exposed areas such as the face. The design should be from 50 t. 60 mc. hrs. seconding t. the ge of the patient.

3 On all other keloids practically unfiltered t bea should be used. The dosage should be from 3 t

30 mc -hrs per tube. It should be explained to the patient that ulceration will result from this treat ment

4 There is no evidence to show that the destructing does d mage the tissues so that the lessons will recur. There is no lessening f the tendency of the individual to develop k loads.

ADOUNT HARTONG, M D

Levin, I., and Levine M. The Action of Buried Tubes of Radium Emanation on Neoplasias in Plants J Cancer Reservel, 9 u, 63

Normal tissues used in the experiments consisted of young and sidili roots of the purple top turnip and the growing tips of the tobacco plant. The pubblogoe material consisted theirly of club roots artificially preduced on cabbage and kollrab, and cover galls on the greanum Capillary it bes 3 mm long and 0 sy mm in dumeter containing radium emanation were introduced into the plant through a small opening made by means of a stem seedle.

The tube of radium emanation was left buried in the tissue for from one t fifteen days, the plants being examined carefully d may that time t regular intervals. For controls, empty tubes of the same size as those containing the emanation were inserted into identical tissues. In the normal dult tissue, the only perceptible

in the normal dust tasse the only perceptible result from the insertion of radium emination tube was complete destruction of turne in the inmediat vicinity of the tube. In the tasses beyond this rea there was no change corresponding to that noted in animal tassa. Adult tusing was not affected by moderate amounts of gamma radiation.

D ved R Bo ry M D

LEGAL MEDICINE

Ottenberg, R. The Medicolegal Application of H man Blood Grouping: Sources of Error in Blood Group Tests and Criteria of Reliability in Investigations on Heredity of Blood Groups. J An M Ars 9 kms, 37

The author considers \(\)\ \text{Author}\) considers which best test for blood compatibility \(T\) one door of serum on a side is added one drop of cell mustices. The side is stitled and rotated gently exery few minutes it distribut the cells excely \(Aggintarian are all and a side of a side of

quired and weak grintination may be overflooked. The modified Wight capillary pipetts method call for too much glassware and expertness. I the hanging-drop method with hollow ground slides

setting of the red corpuscies suggests massive argintination

aggintination
boarces of error in the test are deteriorated or
weak sens. harmodysis incubition at 37 degrees C
drying settling of the cells inscreacepe observation.

dense cell emulsions under eloped group characters in children and uto aggl innation. As precautionary measures the author recommends duplicate tests—th different sets of test sera

shown to be active t the time of the tests tests of both the scrum and the cells whenever there is doubt and examinations of the cell emulsion without

the addition of test scrum

In studies of himan heredity the accidental inclusion of cises of illentimacy can best be avoided if the mother of each family understands the beet

of the examinations and consents t them. The mataires in which it is possible to predict the remaining parent, ben the children and one parent are known are show in the following table. Children of Group x are disregarded because as they show only recessive qualities, they can come from any combination of parents. The occurrence

of additional children of Group does not alter the production as to the remaining parent.

PREDICTION OF REMAINING PARENT GROCE

| Group | Easter jarrest Omeg | Other Land |
|---------------|------------------------|------------|
| | | |
| 빏 | | : |
| 3 | , | : : |
| ari leelliste | | : |
| , E. | | : |

"The continuous of children Houses and all he not pulled described in the intention, Orchor pulse out that its extension

WALTER C BURET, MD

GYNECOLOGY

UTERUS

Grad, II The Pathology of Uterine Bleeding in 100 Analyzed Cases Am J Obst & G acc 9 3

From the study of the prithologic findings in occase of strene bleeding here reported it as found that the case may be dis lided into acclases seconding to the causes of the loss of blood from the term. These causes usclude programmy infection neo plasms of the strenu nd orange, displacement incertaince, competition endocrame distress consist

tutional causes, and blood discresses

I 70 per cent of the cases the pathologic change, in the endometrium played the most importate to deinterior bleeding. In thirty four cases the chair cause of the endometrial pothology was infection in t enty five cases — neoplasm — od in leven cases, hiperfunction of the or nes

Uterme bleeding is caused also by ascular en gorgement of the uterms and diexa d focal infer

tion of the general ve organs

Pregnancy including ectopic gestation is rulesportant etiological factor of tenne bleeding

It as present in thirteen cases

Constitutional cases are of mino imports of

After incomplet abortion the endometrium under
goes the physiologic change incident t mensitrus
too but the uterine or its ma harbor retained

accurdings which cause continued terms bleeding.

I cases of uterms bleeding with history of
mection, the bleeding is due to discussed endo
metrium, the dinear remaining perfectly normal

Cureffage of the uterus is very important procedure in cases of interme blereding, as the bleeding may depend entirely on the condition of the endometrium even though other pathologic, entities may be present, such as thereal disease fibroids etc. Two or more causes may operat in the same

Two or more causes may operat in the sam case at the same time

Adenoma polyposum of the endometrium is

responsible for terme bleeding in Jurga umber of cases (at least so per cent) and is distinct entity. Uterme glands penetrating the musculature mealso be cause. There are certain umber f cases of uterme

bleeding in which the cause is becure no pathologic changes being found t account for th humorrhage (eleven is the series reviewed). These has been called cases of ovarian hyperfunction.

In certain umber of cases the terms bleeding depends on displacements and lacerations cause g viscular engorgement and focal infection

Submucous fibroids cause uterine bleeding by bringing bout changes in the endometrium over hyng the neoplasm

I very am il number i cases terms bleeding may be caused by degeneration of neoplasm the necrosis causing cell destruction od the escape of blood directly int the terms cavity

F L Cont mil, M D

Norma, C. C. The Microscopic as Compared with the Clinical Diagnoses of Mahignant Uterine Neoplesins 1st J. Okt. & G. art. 9 3

Cancer f the cervix can generally be diagn sed correctly by clinical methods Of across f 53 cases, 8 4 per cent ere diagnosed positively by the chinician and 4 per cent were suspected I only 2 3 per cent was malignancy unsuspected by the chinicians

in circinoma f the cervix th leason is not only f ufv characteristic clinically but also easily accessible t inspection and touch and can be examined thoroughly during the course of an ordinary gype cological examination. F thermore in doubtful cases bloosy is sample procedure.

Of the 53 cases tudsed only 6 per cent were in the earl stages (runnom of the cervix gives relatively small proportion of fix year cures regard less of the method of treatment. The right acces-

sty for early diagnosis is therefore piparent. In caretnoma of the fundits conditions are different. The lesson can nether be unspected nor pal pated and for final diagnosis even the experienced giaecologist is forced to depend more or less upon microscopic, minus from

There are may intira-iterance lessons which may be configued to the carmona of 0,0 of the most common is carcinoma combined with myona. An analysis of the cases studied sho that at least 75 per cent if the erroseous disgnoses were due to this condition. Of the cases of carcinoma of the fundus no fewer than twenty ere diagnosed clinically as being fifty-seen ere diagnosed clinically as position and in diditional twenty-four mapanes, was suspected. This is sufficient evidence to prove the import ce i froutne histologic examination.

Of the enture series of cases if carcinoms if the fundes curettings lone acre submitted t the laboratory in fifty eight cases. The clinical diagnosis was positive in twenty-one (56 s.pc. cmt.) the chinical diagnosis was doubtful or malignancy as suspected in t. ently t. cases and th. cookin too was regarded as being in fifteen (5.8 per temperature).

cent)

The frequency of serroms has been greatly oveestimated in the past, som pathologist saserting that per cent f II myomata possess malignant characteristics. The uthor reviews thirty five cases of sarroma. During the same period of time cases of sarroma. that there cases were treated at 6 shromyomate of the uterus were removed of the thetry-five malagnant connective-bases tumors, only eight poperate to be depenrations of previously beings necoplasms. Therefore in this seems surconations depenrations of myocata cocurred in only about 0 d of 1 per cent of the cases. Note of the patients with myoma has had recurrence, but over 50 over 50 over 50 over 50.

per cent of those with surrors are dead.

Chorso-epitheisomata wary markedly as regards
malignancy. A disgnosis from the curettings alone
is often impossible. The author has encountered
only air cases. Three of these were manifestly
malignant and were readily disgnosed from the

Correttopes

In the cutter sense of 30 cases of malagnant times the Cambel diagnosas was pointer and correct m 97 (50 3) per cent) the true conditions was expected in an additional fifty one cause (15 per cent) the church diagnosas was malagnancy but the type of neoplasm was not recognized in afters (15 per cent) and the conditions was regarded clinically as beings and its true character determined only on histologic examination in forty-five (17 5 per cent). In conclinous the inthe state that the labora-

tory should have the benefit of clinical avidence in all cases, and the follow up of the clinic should serve as check on the laboratory diagnosis

E L CORVELL M D

EXTERNAL GENITALIA

Girard F.R. Posterior Vaginal Desimage, with a Description of New Instrument Good as Vaginal Pairic Guide Calferne State J. H. 213, 321, 0

The author has devised as instrument which he believed in our In doesnbe it as a clamp apparametely at on In doesnbe it as a clamp apparametely at on long with a doeslie curve. When closed the end forms as overlad 13 3 cm wide and 5 cm high The autenor earthca of the bell is growed transversely. The operator feels this grower through the stricthed tissues of the posteron comits and makes his success directly down on the bell of the Instrument, thus evodings supery of the rectum, which is held back by the lower half of the best bell of the posteron of the large opening in desired, credit location can be made at will with the bell as

guide. When there is a possibility that vaginal drainings will be desired, the vagina should be cleaned before the operation in begun by scrubbing it with green soop and water washing it with solution of lysol, and painting with a per cent solution of sochoe

The try of the instrument is doped int strike inbirking or one solution, and insorted between the lable past below the neckars. The bandle of the instrument is held pen-fashed and the instrument presed downward and forward so that the rounded extremity slides along the posterior wall of the various As the instrument is introduced the handle of the past of the posterior wall of the partial As the instrument is introduced the handle of the past of

dies are depressed until they are opposite the vaginal orifor, when the rounded extremty of the instrument will be fromd stretching the posture forms. The instrument can be inserted by more, and there is no possibility that it will be inserted into the urethra or rectum.

After the operator has made his incides, the clamp is opened by the assistant and draining material is placed between the saws of the guide and

a thicken into the various

The author nees a parafilin game drain which can be laid in strips between plans game and the wound or itself as casing for a capital draw. These drains are removed gradually by abortome them an inch or so on the fourth day removes [ail the removed or the fifth day and removing all the removed.]

the suth or seventh day
If is sometimes necessary t dilate the opening is
the posterior forms if it shows tendency to close
up rapidly and dam back the secretions in the
pelves Following the removal of the pelves draws,
the alone should not be impacted. If the dackarge
is abundant, the author advises gentle mospong
out with gauge.

MISCELLANGOUS

Frank, R. T The Treatment of Cystocols, Ractacols, and Uterine Prolapse Am J Oles & G) av

9.3. 8. Children's cases improve to the muscalar fascul, and connective times structures of the peirs. The transquist lagament may be ten; nos or both of its pubmental bloops of muscles may be availed from the pubsic bones, the gential hates may be greatly district, or the pubment lesses may be gifted in not always possible to define or recognize the ansatz of the pubmental structure. The pubmental structure is the pubmental pulmy result and can be recognized and corrected only present and can be recognized and corrected only.

corrected

The ugas of these injuries pipesr either separately or combined in the form of cystoccie, rectoric,

and prolapse of the uterus

Not every case of cost occle and prolapse require operative intervention. Many ossen should be taked over the period of child bearing by pallative

measures

If the peruseum is intact, cystocele alone may be retained by Skene or a Gehrung pensary

Prolapse of the terms in young woman longing to more children may be kert back the sample pressures reach as the samer pessary of Schar, the hard rubber ring, and the globs and one shape pressures. It is in union to operate upon old dishlitted women ho are poor operative risks I such access also pessares should be used.

If operation is to be performed upon waish is desires to have more children, the vagual tube and outlist must not be undelly narrowed. Care stent be exercised in repairing the cervit. Trackeloraphia according to Emmett method is praferable to super tabon or trackeloplasty (by comp) because ampatution frequently induces at rility or if pregnancy supervines causes severe d stocks. If the sterns body is displayed, either netroffexed or retroposed, the correcti operations should aim to shorten the round figurents and bould not fasten the uterms t the abdominal wall

In the cases of nomen who are the triburd at operation or who have passed the menopause three methods of operation may be considered.

Repair of the anterior and posterior aginal all and perincum from below followed by entrofiration

 Interposition of the uterus between the infenor bladder wall and the vagina, and repair of the permeum

3 \agnual by sterrectom ith suture of the lateral stumps below the bladder followed by permeal epu

I the cues f ery id women and those in which there has been severe recurrence of prolapse after raginal hysterectomy obliteration of the agina my be done

With en few exceptions the a thor found that the first method, repair of the evatorcie and rectorcle from below combined with either the Alexander Vidual operation or entrofication from abov is applicable to all articles of prolipes.

Occasionally in the cases of bort fat omen, hem laparotomy is relatively hazardous and lurge cystocrie carries the most serious disability he has

seed the interposition operation.

If has never employed in an inviterections with utilization of the broad ligament tumps as described by Goffe, and would reserve this procedure for those rare cases of prolipse in which against by streetomy is undicated for some their condition.

such as corporeal caseer. In a number of cases this technique was followed by huge recurrences of the exatocite. Such recurrent cystocides may prove incurable as the central support of the pel le connecte etssus from which the upporting fibers radiate namely the supragual part of the cervix has been removed.

The repair of cystocele counsts in separation of the descended bladder from the uterine cervit, repair of the pubocervical fascia in the media. Inc., and suture of this structure high upit the cervice uterine juncture so to re-establish tense continuous bladder shelf.

Repair of high rectorele consults in exposure of the netror rectal wall high up opening of the Douglis culd de sac, obliteration of this pouch by circulur suture and epair of the torn rectal fascia. This repair is usually combined as the repair of a low rectorede and torn personal body.

The repair of low rectocele and a licerated peraacum consists in exposure of the anterior rectal will and sep ration of the levator edges and triangular harmonic or warse.

If the anatomy of the pel ic orute is understood, of cases are judoosalv selected and if the technique described is followed the results are fully as attafactory as those blained by the radical treatment of injurial berns, but a certal under of recurrences re to be expected, especially in the cases of patients with faction thoses and general enteroptias. It

with faccod tissues and general enteroptiss. It hould be emphasized that patients whose complaints and pains did not arise from the mill or lacerations of the cervis, the small cy tocale in did the negligible rectorate present will not be benefited by unnecessary plastic repuir. F. L. Connect, M.D.

OBSTETRICS

PREGRANCY AND ITS COMPLICATIONS

Rowley IV N Observations on the Blood Sugar During Pregnancy and the Puerperlum Am J Old & Gyare 921.

Determinations were made of the summ content of the maternal blood t, or before term, nd on the second morning after delivery. The steric alices of the cord blood ere also tuded. In the series reported none of the patients had dislutes or glycomura. The average blood man of fift, three omen dange premiary was o mem for each

oo c cm The verage value for the cord blood was og mym for each oo c cm The effect of anas thesis on this value is negligible. From these find ings the author concludes that the placental inter change of glucose can take place by the process of diffusion from the maternal aide to the fetal aide The a erage postpartum also of the blood sugars as a magni for each too com. Hence, the snear content of the maternal blood domag presnancy a less than that during the poemersum and greater than that of the cord blood

Homen shore pregnancy as complicated by protracted passes a d comiting showed amounts of blood sugar which were consustently lugher than those of somes bo did not ha there complica tions. Resiley concludes that muscular only port a factor in the production of postpartium hyper gly cremia that ther samethens as contributing but not necessarily determining factor i the determining factor 1 the production I ruse in the blood sugn concentra tion of cord blood (in the experiments reported every effort was made to minimize the effect of angsthesa) and that the impossible t show that involution of the terms is primary factor in producing postpartum hyperglycemsa I certain types of taxeous the blood suga is increased

Wels, W E and Van Nest, A E The Sugar Test in Pregnancy Am J Ohil or G arr 9 3

When first seen the patient is told to come t the chine the next morning athout breakfast. See to then catheterized and the mine examined. If the urine is normal the test is continued and specimen of blood a take for chemical examination 11 hen the has been done the patient is given go gm of efective drawnhed in 500 cm of test and kept in the prone position for forty fi minutes to prevent womiting.

minutes one hour and one and one half Forty fi hours after the ingestion of the sugar catheterized specimen of urine is guin examined for regar Blood for second sugar exemination is usually taken be t cen the one hour and the one nd one half hour

period-

Blood segar determinations are reads by the Folio method, and unne sugar determinations by neur of Benedict and Fahli g's solutions The content of exper in the unners usually bet een rand of per cent. Most of the positive cases will p. e. positive urine in forty-fi minutes but in some the test ill not be positive before an boor or half Since adding the examination tills end of one hour and half the uthors have found four cases which did not go, positive reactions matel the last excurren was obtained

Wels and Van Vest believ that accordances of artificially induced renal gircomma ith blood FEGAT Content below 10 per cent in the first twelv weeks fler conception is valuable and in the early diagnosis of pregnancy. The test has proved correct in more than or per cent of their cases

E L COMPANI M D

Histon, W. A. The Wassermann Reaction in Prespancy Am J 5 Helu a t vs. (5

This is a study of the Wassermann review of the blood of our pregnant women The tests were made during the period from June of the June, q q and formed part of the routine cursus is to draw thention to the efficiency of cholestern med anthrens in the Wassermann reaction is pres namely and to give some idea of the prevalence of

syphiles among women of the despensery cliss The results obtained in this study should be compared with those high ere obtained by the same technique in group of 1 70 maval students

and penal group of Sty omen (Table I) These figures which are from highly syphilic and an essentially non-exphilitic aggregate, are given to point out the comparative prevalence of the disease in well defined groups as show by the Wassermann test performed the the same uniform

technique

Table II gives the figures for the entire group-The percentages of positive and doubtful rest tions in the first t institutions to out different from those in the less to. The results for the England Hospital can be explained cardy by the manner of obtaining the specimens and agree with the observation of others that cord blood # only bout one third as effective in the detection of syphilis by the Wassermann test as blood obtained by the usual enous puncture. The table indicates also low mendence of positive reactions to the casts of the Lo ell Corporation which is accounted for by the fact that roughly 80 per cent of the patients re of foreign burth or descent. The figures freed the Florence Crittenton Home are particularly interesting insurach as only young, wemarried

TIBLE I -W ISSERVING TO STS OF AVAITON STUDENTS IND RELORGATORS WOMEN

| | | Postu | Doubtful | /dat |
|--|-----------|----------------|---------------|------------|
| | Total | No Pe cent | \ Per cent | Vo Percent |
| U.S. naval nation students Inmates of Massachinett. Reformatory for Women | 370 56 | 340 4 40 56 | 0 5 75 8 7 | 13° 50 8 |

TABLE II -WASSERMANN RESULTS IN A 7 CASEN OF PRICNANCE

| | | P | out | D | oobtfal | * C+ | estre |
|---|-------------------|------------|---------------------------|---------------|----------------------------|--------------------------|----------------------------|
| | Total | \ 0 | Per cent | \ 0 | P ccat | `~ | Per cent |
| Bodon I and I Hospital II reace lentication Home I well Corporation Ho pital lent land Hospital | #54 170 167 | 9 | \$ 24 \$ 6 43 57 | 351 6 5 | 4 6 5 5 97 31 | 6996 17 15 2600 | 80 7 89 6 96 97 5 |
| Trital | 94 7 | 431 | 4.5 | 405 |) ¥ | 9 %) | 9 9 |

TIDII III - RISSERVINA REACTION BY RACE GROUPS

| | | P | ortite. | D _c | abtful | • | nert. |
|--------------|-----------|-----|---------|----------------|----------|----------------|---------|
| | Total | \. | Per ent | \∞ | Per cent | ` | ler ent |
| \max races | -05 | 07 | 0.4 | 75 | 4 65 | 4% | 85 0 |
| Ra⊷in | 460 | 44 | | 40 | 3 44 | 456 | 93.7 |
| Irana | 45 | 4 | 49 | 7 | 4.7 | 520 | 9 6 |
| โนการ | *6* | 31 | 3 3 | 4 | 4 | 794 | 9 4 |
| 1.3 | 50 | - | 5.70 | 20 | 3 99 | 40 | 9 9 |
| Point | 1.1 | 7 | 5 | | , | 396 | 95 |
| \e-(nun | 7.4 | | 3 15 | | 55 | 57 | 94 |
| 'n nu | 0 | | 6 3 | | 6 3 | h ₇ | 7.3 |
| Note | 76 | | 51 | | 14 | 77 | 64 |
| (m. k | (jo | 3 | | | | 1170 | oń B |
| (10.0 kin | ~1 | | 5 | | 3 | 75 | 90 7 |
| Factive | , | 6 | • | | 77 | 07 | |
| Errech | | | | | 1 1 | 84 | yń 6 |
| Portuguese | 65 | 4 | | 4 | ň | \$7 | R7 7 |
| (rman | 14 | | | | 3.7 | 5 | 90.3 |
| Sweets & | | | | | | 44 | 5.7 |
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TABLE IN AN SERMANN RELIT CLASSIFIE ACCORDING TO ME CROTTE

| ters | | P | uru. | b | netalul | \ \ | ngra. |
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| /au | [cts] | * | I cent | \• | Per cent | ` ` | Per cent |
| 7 | | | 9 | | 4 14 | 4 | 94 6 |
| 7 | <i>*</i> 5 | | | | 5 3 | | 64.7 |
| 77 | ~ | 10 | | 3 | ~0 | 4 | 918 |
| 3 | 105 | | 4 | | 3 | 170 | 99.7 |
| 1 (* | 9 | 4 | | | | 40.4 | 6 |
| 15- | • | | 1 1 | | * | 45 | 1.8 |
| User | | | | | | 40 | 97.5 |
| | | | | | | | |
| | 10 | 115 | | at 2 | | • | |

orien thoutes ! of gonumbers or expluding to ad it I for onlinement. These therefore represent one spatial set of philipping to a fiber greater like obtained

I from the fithe greates like obtained that it is pathed into a figure of the law to a sent the father than th

alls cognized illustrated takes (houses Jip nesse and vertoes. This last took nempa of bother to Bire of titak. In diancumments to

Villough the umbe of w in some of the groups is rel t. I mill it is exident that their is like it rait if post in their mong the

foreign population. The one exception lies ath the 5) nans a bo show bout the same percentage as the what persons born in the United States and

An analysis by age groups is given in Table IV The most important fact t be learned from this table is that congenital syphiles must play very mail part in materially. If we assume that the small point. Case among the o pribents ranging in age from to 7) cars was case of congental syphilis, the incidence is less than per ent. This is greatly below that of the five groups over y

years of ge who constitute the majority Since pregnancy a matural physiological func Suns pregnancy as manufactural payment great time tion, few if my of these women sought medical attention because of cute or chronic illness. It was found that persons of greater mt lingence show a uniformly lower incidence of positive tests while those of lesser mentality show higher rate Thu difference is realized on comparing the 3 7 aviation students, among whom the points aviation sourcil, saising wines to positi re actions equalled only 5 per cent, at the group of criminal women who ere for the most part feeble minded and among whom the incidence of positive

reactions was 40 per cent
The conclusions dra n are as follows The statistics in this paper should indicat the prevalence of syphilis among the verage owner of Massachusetts of the dispensary class

If we consider a positive reaction as diagnostic of syphiha, as in 4 8 per cent of these cases and doubtful reaction as indicative of imadequately treated syphilise, as in 3 85 per cent, the total inci-

dence of the disease in this class is 8 3 per cent 3 Properly standardized cholesterinized antigens have) lekted a negligible number of false positive reactions in child-bearing women

Kilgors, A. R. Tumors of the Breest Arising During Pregnancy and Lactation California State J W

This article is based upon a series of 500 cases of breast lemons. The material studied was the laboratory records of Bloodgood at the Johns Hop kins Hospital and a number of records from the University of California Hospital

The most common of all breast tumors ppearing damag pregnancy and lactation as well as at other times is cancer. The order if frequency of certain being a conditions changes materially during activity of the breast Nearly 70 per cent of galactoceles, or milk c) sts, arme in connection with breast activ ty. In over 5 per cent of cases of breast tuber culous the condition develops during pregnancy or lactation no doubt because of the lighting up of unrecognized for in the breast by the increased circulation incident to function. In order of fraquency the most common tumors developing dur mg pregnancy and lactation are cancer galactocele, inberculous, and adenomata. These constitute over 90 per cent of tumors appearing t these

TABLE I -- PERCENTAGE OF TORON SERON DEPO PREDVILLY OR LACTION

| d | PERCENTLY OF | Liczia | 100 | Duro | |
|---|--|-------------|------|-------|--|
| | Cancer Conly patients under 47 years | 100p 40J | 3.41 | Hills | |
| | Tuberrilous Admosforous Mucrilineous | 14.54 | ij | - | |
| | Totals | 7.4 | - | | |
| | T 87 F 77 | 5 | * | 5 | |

T BLE II -- EXPECTED TO ACTUAL PROMISE OF CANCER IN LACTATION IN THE RESIDENCE AND

| THE IN LACIATIO | A TOTAL | CHARLE OF |
|------------------|---------------------------------------|-----------|
| | Emerie | ACDOL THE |
| | (d = 4 | |
| | ections of | 2 maj |
| Age at tops | Part of the | |
| 5 20 30-14 | === | |
| 1 10 | 8 | , S |
| 40-44 45 49 | J4 20 | j. |
| | ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ | 2 |
| TABLE III Corner | | - |

TABLE III - COMPARISON NO AGE CANCER IN LACTATION AND A INCREME WITH APPROX OTHER THESE

| | A TAKE TIMES | |
|------------------------------------|--|----------|
| Astronop 5-30 30-34 35-30 | Total integral of the control of the | |
| 35 36 40-44 45 40 | 44 | л ц 5 |
| | 43 |) N |

periods. At other times than during functions activity chronic cystic magnitus in its (amor lier forms takes the place of gulactocele and takens

The incidence of both cancer and beings terror is destributed larry event over the various stages of pregnancy and lectation The point of practical reportance in this onnection is that no two during pregnuncy out in the differential diagnoses. During the entilactation can cancer be raid months of incretion most lumps in the breast are inflammatory but in the arres of cases revesed to per cent | pregnincy ad actation cancers or first noted during the first four months of lactation Therefore it is not safe t delay the exploration of lomp during it) lictation too long on the a-

sumption that the inflammatory Most interesting of all spects I the subject a the question of the relation I breast activity to cancer It is fairly I est blished that previous normal lactation does not render a woman more ant t develop breast cancer in later life than the oman who has never lactated, but t is not so clear whether cancer is more apt to develop during year and a half of pregnancy and lactation than

it is during the same length f time t the same age when the breast function is dominant

Of forty five patients traced f r five years or longer after operation six (3 per cent) were well when last heard from This percentage of five year cures is not as high as the percentage of cures in unselected cases of breast cancer generally but indicates, as cancer statistics go a far from hopeless prognous for malarment discuse arising in connection with breast activity CRD val MD

McNalley F P., and Dieckmann, W J Hemor rhagic Lesions of the Placenta and Their Rein tion t White Infarct Formation Am J Obn or Gymes 9 3,

In an examination of 300 placents: t or near full term the authors ere struck with the frequency of harmorrhagic lessons, which were noted in 11

cases (18 per cent) On the bases of this study they draw the following

conclusions

At least some of the usual white infarcts resulting from changes in the ville may t first be red m colo as described by Young T these, the terra red infarct is applicable

The other lessons, to which various terms have been polied should not be called red infarcts because they are not infarcts, being collections of blood to which the term hiematoma or hepatize tion is applicable, depending on whether they are circumscribed or diffuse. They has common

CLICKET 3. As pointed out by Young, the maternal blood n of primary importance in nonnehing the with

Collections of blood in the placenta may be the beginning of white infurcts Thus blood itself may be changed into white infarct which in the gross does not differ from any other o the collec tions may cause infarctio of the surrounding will by mieriering with the maternal circulation

There can be what infarct formatio without endarterins in the fetal vessels. Whether this is true of all infarcts it is impossible to say it the Present time F L Commit VID

Cotts, G The Eriology and Treatment of Tubel Prejunicy (Ser l'ésologie et la tractagnit des gros scenes tubuires) Lyen chir o x1x, 663

The author's patient had normal pregnancy ben abe was 7 years old Three years later abe as operated pon for what was thought to be cate ppendants but found t be an extra utenne pregnancy The illness reported in this article segmented accord tubal pregnancy but this was ruled out. A diagnoses of sulpringitie was made and vaccine treatment given Several day later the patient passed a large amount of black blood by rectum which undoubtedly was from a hemotocele opening spontaneously. About six weeks later a hematosaipmx the size of a mandarin ora go was removed by operation Recovery followed

Extra uterme pregnancy with hematocele open ing spontaneously into the vagina or rectum is a rare condition today because operation is usually

performed before this stage is reached

Cotte suggests that as women who have had no tubel pregnancy are pt to have another it might be well t perform hysterectomy or remove the opposite t be at the time I the first ectoric gesta tion. If the other tube show severe inflammation there is no question as t this indication but in ne case in which the remaining tube was pparently normal Cott did a salpangostomy

It has not been proved that the cause f tubal

pregnancy is congenital malformation

On the bases of the leterature and nineteen cases of his own, Cotta believes that in tubal pregnance the treatment should be subjungectomy pangostomy alone witho t removal f the ovary and that in certain umber f cases the gravid tube may be saved. If the tubal bortion has been complete and the pavillion remains permeable t is probable that the swollen t be will regain its normal size and again f lfd to function

TI A BRIDAYAN

Moody, W. B. Bacteriology of F tal Systemic Infections Following Miscarrage or Abortion Am J Obd br Gs at 9 3

In t enty four of t enty entht cases studied some on organism presend in several of the fluids thus beta streptococca were nolated from mor than one place in thirteen pneumococcus bacillus cols and staphylococcus in three each and bacillus m coses and lpha treptococcus in one each Cultures were made during his from the blood of five patients. In ly one were any reansons found these were beta streptococci. In these cases there was thrombo-ulcerative endocarditis. The hemolytic streptococm soluted in all instances proved t be f the beta type. All fermented lactose and schem but not mannite or until efforts

t determine specific strain by grd timation tests failed Agglutination f suspensions f these strains by serum from rabbits injected with strains of hemolytic streptococcus from se eral sources such as cases of scarlet fever erympelas, infected tomals, and separs due to bortson, failed to show any specific characteristic group

Although twas noticed at intopey that as rule the alterations consisted I pentonitis or throm bophlebits varying in location, degree and se quence—also that these tw. types f alterations were carely combined—no difference in the bac terology corresponding t the two types of altera tions was definitely established

Statements, particularly negati statements and low women who has had criminal or self made by women who ha induced abortion are entirely unreliable. Admin

sloos that pregnance will terrupted by a mad life physics is ut the patient herself ere obt med f om thirteen patients. In four mile is h mol tic atreptococci front see a staphy locord or breill only in one the presumerorarie d in one the protein I suffer I three of the four sea hich bet trendered in the fourth at ted th t physicipier and & had i to duced billions or performed can'll ge Il fourth patient t tel th t she had i seried tack. Lit we later found that the titue perforated Patient ith separateured the schore in me oli or staphylor a ne la ll prateus ere app rently treated refer condition I r from septile. I in the repeated to the fact so stanteur ment tot the time

(Ine tutient alert di das beine he tred the bon til til bol om i i da after ber alminion il a topis a green is en lometent acul ser über-en pen i bliteral i leunti nd to eather a few of the theel from the he it and the pent is I pence I I pleural I er brospinal that willed pure culture of

patient tened inspertation of the tres, but theithal they built ken pall oil bard reported forerbes to term press na. Both er Ill Lout thre & the ramps bill nd fever It at page greeners rober t

filesnopurale t per tout 1 person t tis ere found in one the there a m diston surpurate thromtophicist of the 1ght sill vein with infect the piece I one I g () tures of the blood and the plearal and peritons I

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toother patient & hiter tinkibs mid fe lik toron mbe forcison later des kepel chill feser i nd elling i the left leg th beginning greene litter de th purukut endometrite bues in the mi smet un and thrombons I the terms n n neal risk nel femoral seins and the unf rest found inhibited additional exceedated from the blood in the beart and the inferior ina ex a but no negroem or whitel from the 110 31.1 pentone I du I

LABOR AND ITS COMPLICATIONS

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s en ellour a admitted to the bespit I Decimber term. Ul public me sa emeat ere norm l Pr sentation and pout in it left or pit terior. The best (perofiblior listed said to bests and the second at ge one and one half hours. Labor terminated in high for pe del era. During the extraction by the bend the mid pil is the operator f it sauden give feer high extract xi was can The buby elected 4 more Ther we make the direction the ateres ill nd upon sammation it w found that the enter anterior aginal Il crethra, and labia errore ted from the rumps t he en the left de ther minducing a catheter int the me las clear more lit and fact indicating that there had been so injury to 11. bladder. There we isoporated 4 the jel x is no amounting t boot jen 4

names at hear parted of the hematest re repared 1.6 m dhed plaster strap in probed or the tooks tern completel surror for the pich. Shock products. The ration to as miled ell I de after delivery profese purale t discharge moved from the space I Retain The sero lise joint showed no distribute. Con harmer mild stoke I broom become de

loved tibe womph a mitteratrat as deharrest from the bospet I in for reds there ut at di alt

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b h d h d three full term rormal deliveries. At term she ghed the The pelise mesorment or normal Present Lun defroctests antone The ful at progressed rappell the troop fumliter of let the pittent dosed moder to shock the late take it gen separation of the yetel on cummaten wisher ոլի . Ther I ration The Local policel The patient make by the \ of the tripled The patient ma-ancient free etcher togeth bospitalen fre a teepth for the bot all ithem 4 Icepth I

old para : 10 t The part t dri tred t the hi pital immediatel alter to h d been skinered t house I forceps. The haby eighed a 160 gm. The p tient extered the hosp tal tillus let be infuent of ther ad thethe again prese t the pulse in the following do her the high removed t found that the art too gin! Il ad ure his were took from the police I were the la er two t pulses unto the pre es distri. The pulsa years aprilired and the each of the tones separ ted on A personance the is not called if the course count at I kemerbage The pel n . M Dark d

trapped the dalminer the pube boars in de error l' b the temps for debepule so is andt de new crepresent muted de-

in the kower token-en and the orpan course for 17 1 1 1 1 m m k bu left the hospital it the end of an thr flung them pracorded wit

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The athor reports the cross of young come double than double count and fibrous

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aginal seption who became pergrant in the left (certs seen after marrings, missarrined it is months, better marrings to missarrined its months, better the registration of the major threshold the certs at term by the certs better the certs and the certs at terms by the certs of a formale infa t weighing 5 lbs. on At operation to do abunct tern sound only it the certs call profine were found to meeted with the lateral sele of each terms as an pear early normal the with a normal ary. The consultation to performed the existent section stemlared the patient by resecting the t best but the reasons for this is not stated. C H D is M D.

Greenbill, J.P. Once Camerean Section Al. w. ys. Camerean Section in Untruth 1 in J. Ohn or G. nec. 9 3 85

Four cues are reported a which car rean section had been performed it the nuts pregnance. It was noted that me very instance the baby born through the guant most eighted more than the bab dehiered by orsairean section. One patient of the real properties of the pro

It prears from this report that it is of the modern methods f performing cas rean section the dictum once causare in section al.;

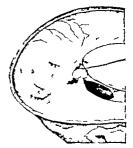
CREA BA section is untenable

NEW BORK

Holland L. Cranial Stress I th Fetus During
1 bor and the Effect f Exceeds Stress on
the Intracranial Content J (b) or Green
But I mp u 55

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R I CHRIST MD

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Crothers R. I jury of the Aphail Cord in Breech Fatraction as Import of Course of Feinl Death not of Paraphegia in Childhood In J. M. v. g. j. cl. gs.

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of the lower actioner result in anythem of perm sent fleculit belo the lesson.

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4 F on a theoretical one lerat in of the lones t ork in attraction t seem justiff bis to suggest the trustion on the cord here combined. In sepapolise pressure or aterial contractions on the hard on vicinities of the lone of the lone heralation of the modula through the foreign mass. 6 If this post bility can be proved by laborators or choical stockes it will be proper to challenge the statement, now almost an ereally accepted, the a ph. 151 if the only important came of irtal deals in breech eat action. If B. Marriera, V.D.

Bacun, C. S. Some Obsettrical Problems langual
1. Stillibitibe and Deaths of Sembers Infants
J. Iron Visk M. Ser. 3 aug.

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hald from the nic of members and expolarance an algent dering the first step of hibse his highest here is no fetal de th m is cased in his sould be attributed to the sec of either or mirrous order and on your new CH D is MD.

Groves, W. R. Hwmorrhage in the Newly Born Med J. Ambellet 9, u, 76

The author reports a case of kemorrhage from the navel and pensor of reshorn infant which could not be apopted by lighton or local applications. After feetr-eight bours the child' condition was so gra e that the injection of o c.m. of the father a bood into the longitudinal same was done from the promptly cressed. The technique used is described as follows.

Sterilize two symmets (one a th carracte of c cm) which have interchangeable peedles The latter must be stout (about the thickness of an a erage-med safety pen at least). A warm terrie sthme solution a d a s per cent sod um citrate solution are necessary. For the litter a solution of sodium citrate tablets in sterile a ter may be used without further stenlimition. Take up i com of the citrate solution in the ocem symmet and an unmeasured quantity in the second syrings, and place both in warm saline or preferably citrate solution in a sterile dish (in the latter case no saline solution need be prepared). Into the 10 c cm syringe take up o cum of blood from the ein f the donor This gives dilution of a little over o per cent Disconnect the needle and lay the symmer in the

warm sterile citrate solution. Then place the baby on its back across a table, with the occuput resting t the edge. The head should be steaded during the operation by a nume leaning across the child a body and placing her hands at the sides f the head. Sterilize the area about the anterior fontanelle (shaving is not necessary) and define the posterior angle of the foutanelle with the left forefinger Insert the needle of the second syringe exactly in the mid-line and direct it obliquely downward and forward at the spot located by the left forefinger After t passes through the scalp second and ery appreci able resistance will be felt. In overcoming this the needle slips into the mous the entry being signalled by thin stream of blood mixing with the citrate solution in the barrel of the syrmen. Care is necessary to keep the seedle from moving Disconnect the barrel of the syringe, replace it by the 10 c.cm syname and very slowly deliver the citrated blood into the sinus. Unless the needles are of large gauge, an optectable amount of force will be necessary to empty the symmes, but as long as the baby's head and the symme have not been moved, the surgeon can be sure that the needle is still in the stous and can inject with confidence

C H D vol M D

GINIIO URINARY SURGERY

ADRENAL RIDNEY AND DRETER

Stevens, N. F. M. light it Turners of the Supers renal Gland J (m M 1 911

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Harrison, G.A., & La rence R.D. Diast se I the Blood and Lrine so Mercure of Renal I Meirno Lana

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Setton M. G. The Action of Heametholese T transine Med J terrely out t

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theter is sed It is of doubtf ! like in know hghe ujor the san h. (1)1% sa V(1) ng Great & Eullettan 1 | La craf Diarrel

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The purpose I this article is t establish the importance of dimmisshed specific gra 1). It is stated from one kidney as sign of dresse I that shelve or distributioned of it function. The subtor' observationed of it function. The subtor' observations are based on 44 % cases. I this series re-project in a shown it her widered Careful ciscosopy was grant remail origin of their companies. I do not not series the total series and the total series the specific gravity as equal to the remaining assets the remaining and their companies. The specific gravity is a sequal on the time series who there have been supersonable to discover The specific gra ity a sequal on the time series also the state of the discovery of the series and the series are series as the s

t enty six cases f bilat ral pa litts. In the re maining cases the severity of the could tion—show by the mount of pus and allouring was greater on the sade of the lower specific graphs.

These fact show that diff renc in specific gravity on the t sides indicates some bu insul-

of the kadney movable kadney ren I cohe runal infarcts gunshot ounds of the kadnu and certacases of sympt micro renal hematum

II 1/1 PLAGE ME MID

Lovaley 0.8 and Muller II R. An Experimental Study of Various Chemicals Used 1. Pyelog raphy J. Leal. 9.3 tr

The thors confirm the ord. If hendrath ho loand that injecting 3 material int the kaline pelvis under pressure suffice t t cause over distriction in da agressis productive leading t in manifestiments or reaction in the kaline. pollimostro video and the pelvis sufficient to the confirmation of the period of th

It is now used in no per cent sol tion.

Pedography is indicated it ascertain the ext it of damage of the pelvis the degree f dilatation, the exact location of tone and the presence of hydrosophrous mallogrants growths millormations.

strictures or anomalies

The principal contr indications re subscrite infection deficiency of the kidney old age, ad-

Freat rakness

The enhant meet le d catheten through y shoroope take specimens for laboratory examination and m Le the flickney tests arist. Drey then may realignours of the upper not lower tracts bodium soldes on tom as then injected and nexronalignours are made. A fifth rocatgenours is made to the patient in the erect position, the

catheters b ing been a thirties t the retiral inferes and sedium sociale injected during their a thirties at The socious social is dra. of two reserving the catheters. For cy tograms diver sociale emission has been found a stustact by inclum. Both kidneys may be examined at once the thirties of the method.

Qumby W. C. Perirenal Insufficient of Oxygen. J. Frai. 9.3 12, 3

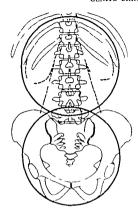
The most reli ble of recent reports re not cuthousuit; regranding the princed insufficion of vigen and the utilo finds that this proced re loca not give pit tes fany great value that the terroccopic plates made over the Bock, dusplengen high local control of the box of the procedure of the box of the operator b even numary judgment and knowl dige of nationary Quality used vygen offsected in

stende liter flash connected with a liter flash of sterile at and humbar punct re nee marked in cent maters. The patie t as placed of stende * t humbar punct re needle has sid and after the induction of local a sisthesis the needle as inserted into the loin pointing p and in ton d the lower pole of the lodgery through the percrenal fascia but of int the kidney t a lepth of t m ccording t the patient When the needle as positio the a ter flash les tion of it the water will as in ert d At duplace the oxygen ith moderat pressure. The bust results ere beauted by injecting the kidney Very exposure from t live pelvis and making t fourteen hours after the gas insufflation Dense adhesions bout the kidney such as I llow

operation are definit contra dication t the number of gras B 1 Rolling, M D

Brasach W F Renal Toroion J Und 9 3 rt 33 At times the course of pyelography and mm l spleration or cron m rked deviation from the ormal in the rel tive position of the renal pel vis and cilices is found. The pelvis may lie terror t the calices or the normal rel tions may be re erred so that the calices are med nt the laterally ing pelvis. This t riso may be d to an arrest of the read man in is progress produble the pelvis a still anterio and bef re complet rotatio has occurred Renal tormon may be caused lso by ther than congunital (ctors such as acquired renal ptoms resulting from various f ctors floating kid ary being the most common. The long axis is often changed from the normal vertical so that the pelviextends horizontally. Another responsible (ctor is displacement of the kidney by external pressure This m 3 be produced by an extrarenal tumor penpephritis and spinal deformity. I such cases th kidney m y be m rhedly displaced. It is not unusual t find t over the ertebre under the tenth or eleventh rib or in the bony pelvis. Intrarenal tumo may cause torse through deplacement encroaching on the pelvis. Renal rotation may result also from permephritis and subsequent occi-





by Anas to be meladed in recargeous and the stream tract. The upper exposes about a large show the lest is rule on each safe, the bodes and transverse precesses of the last two down and first four hunter embry the abades of it feast the leaves to defined as the stream to the large stre

Pyelography and ureterography are often indispensable in the diagnosis of this condition when the ray study lone gives doubtful findings. Executant review the classical symptoms of

calculus in the kid sy and then points out how they say malead. Other kidney conditions frequently cause exactly the same symptoms. The diagnosis of renal calcult should never be made h rinedly from the symptoms above.

Congenital anomalies are responsible for musy problems in the diagnosis. I such cases also the Yray study combined with opaque injections is frequently of great, after

Operat inferrence on may or my port be urgent. It is urgent is cases of calculus anums and calculus blocks. While some cases of this type can be relieved by stretchal catheterization one should not want begar thin force with the most of relief of the anums. If then the stone cannot be located t operation, exphonously or pyletone should be don in

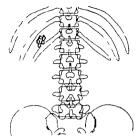


Fig. Multiple gall-stone shados. Not the characteristic facetted shudows, each one of hich has dark pumphery and lighter center.



Fig. 3. Tracing of X-ray from case showing simultaneous presence of branching or cortl like calculus in the right ladies, ad gall-stones.

mediately removal of the ston being delayed for a later tim. The tendency towards conservation of an irga which still retains some function, ting parenchyma is one if the important divances in modern robogy. I the majority feases frend stone operation is not urgent.

The thor ducuses the problems met with in cases of unlateral and blateral calcul. For the removal of kidney stones he advocates pyelotomy in preference t nephrotomy. Recently the field of pplication of p cloton has been greatly wilened by tending the increase into the p rea ham it the preliming racing this of the retroped is arters.

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Phehorn C The Treatment of Hydratephrosis (sused by Abmern I Renal Yessel / Joh Pung-der d h to ma Notes grace et salet H dengton / Je f (h)

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Necker F. The Linkest Picture of Chronic I. Sizermet my Discusses of the Renal Loverings. So: Large at Mank chemish entrues fit her J. k. k. nem der Netrahuellen. J. sch. J. M. (2st. n. 2011).

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age of 55 years, but are found from childbood t adasced hi. The t me from the appearance of the first symptom t the recogn tion of the growth same from a few weeks t three years. The tumor

ma be the only wen

In the digrass of real tumors the thor considers there canchial symptom here 1 to a tumor and pinn. He pres points in the differential drig noss and it for the 1 trusteral externation functional tests, and prolograms re f at 11 reports to crase of papillary carcinosa. One patient recovered but the other des loped recourtenes and now recently deep X-ray treatment. H. reports also case of fibromyrooms the dense theretoes of the execution.

Rehn C od Roctiger F The Cause od Freven tion of Secondary Hamorrhages Alt Nephrot my (Urber Ursche und Verbuctung der Vach bistumpro nach Verbrotome). Buller f. rel Ck 9 x. 350

The statement made by Barth that every 4 uses of an arterial binneh leads to the death of a twent (the formation of a infarct) still holds good to the statement of a infarct still holds good to the statement of the entert and dorsal half it be about are independent of each other a so great bloom are independent of each other a so great habout are independent of each other as of great habout are independent of each other as of great habout are independent of each other as the content had been supported by a south of the statement of the content of the statement of the content of the statement of

стие посыот

Secondary hemorrhage m follow nephrot my immediately fiter period of few da. I the authors opinion the earth hemorrhages are due t poor operativ technique and ca be p evented by

careful suturing of the parenchyma

Some time ago Reho called treation to the possibility that correlation distributed the may be the called the accordant his morning as a population) as a maintainable effect on the delicated to ordinated function of the kidney be directed his treation particularly to the ph isological historio of the spik tidney to private his major delication of the spik tidney to private his major delication of the called and toking of the cm and to beam pattents of the treat preface and the rates.

His theories were tested by 1 d in explantonies performed the Freiberg dim diuning the last two years In case of undered and endranced kales; stall secondary hemorrhage occurred 1 for case-beaking resulted athest bemorrhage and a thout the formation of unnum faitule but no escue bleeding occurred because the catheter was removed too early and in another case unnumy faitule des loped because the untertal catheter was left in pilete too long (fourtiere day).

While secondary hermorrhage does not occur in all cases of poorly fixed kidney it is complication in number of cases, and the kinking f the veins is an important factor St us of the unne leads t hyperamols and bleed up in the paren hym of the kidney which is aplit or the first gets of lealing. This max be presented. In knownell supersect by Introducing uneteral catheter through or into the bladder by as 3 of the explorations would. If statis of the unneceurs in the presence of undisturbed supply of blood as the result of Lindung or batterion of the uniter a second ry himmerbage may develop even first the renal ound is more firmly beated. If this would give as a summer fitted will develop the sound give as a summer fitted will develop the sound give as a summer fitted will develop the sound give as a summer fitted will develop the sound give as a summer fitted will develop the sound give the summer fitted as the sum

The following precautions are necessary, for the pre-critical of the complication mentioned (r) proper placing of the cusion (Zondek or Maracdel) accurate to pixtuon and cureful sort rung (s) most ures to pre-cent status of the rune in d(s) fixtion f

the kidnes in t physiological position

I the technique recommended by the authors a thick ureteral catheter is pushed through the renal ound int the renal pelvis and through the preter int the bladder and its free end fixed. This cathe ter is removed between the airth aid tenth days The ladnes is carefully sutured up to the opening for dramage. I py htm thick rubber drait may be pushed over the cathet into the rend pelvo-The renal fixation is don in such manner that the kidnes decapatalated t t lower pole is brought ba k int the normal position and pushed pa rd until to lower border is parallel a th the cost l rch \ large eedle thre ded th heavy silk to then inserted t the lower border of the t elith rib through the lower pole of the kalney, and brought out 1 the poer border of the 1% lith nh. The thread is left in place for fourteen day

Rothern (Z)

Leguen The Immediat Result of Asphrectomy

I considering the advisability of nephrectomy three factors must be taken int core it viz the renal factor the surgical f ctor and the presence of suberculous

I testing rinal function Legieur inlier on Am hard constant if states that ben there is constant of better neph ectomy will be safe All the other tests. I renal function are only relative All the replication, from on 1 5,5 cm of urms re urnsily passed during the first three or four days, there is the engineering if it does not not the safe and the safe and the safe and the or under the skin.

If the regard to the technique of pephrectors, Leguru states that he uses no drainage and fills the wound of the glucose sol tion.

In cases of tuberculosa there is usually temperature [30 degrees C (fer the operation but this continues only for day or tw. After any operation there may be generalization of the disease t the pleans peritoseum meninges, or bonnes

1 D Immouse, MD

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PLADDER URETITEA, AND PENTS

Lenormant C. A tare of Mired Ternor Epithelloharcome of the Bladder of Probably Allanteid Origin (Sur. cs. ce tures relateep telesanose—dougne padallerest. In te-

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If tologic tamination of the tumor sho set it the most it must epithelisarioms. The nets of proplasm I rate to the blabble. Used ing the Lenormian the only proved see of cythetic acroma of the blabble reported we explain bed

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Lenom at left cert that I the apper role of the hald there may be print four of orderions crets organizing from the affa test or the and the first in amount of the abundance of the may be due it profit from a benefit of the first interest of the first of the first of the first interest of the first of the first

If the hypothesis regarding the pathogeness of the terms of the terms of the terms reported the terms of the terms of the terms reported the terms of the terms o

H / Max

Parker B. B. Bladder Veck Obstructions, Their Surgical Relief J. Reference t. the Young Parket Surg Grace & Okt. 0.1 Tex. 6, 15

The surbor dates that hale the arton phaseol bladder and obstruction are common the published poly observed to be assembly to the properties of the most of the properties of the most observed the properties of the properties o Long continued pairs of the blaker art and surely culturate in pathology charges also hypertroph productation of about Loss at reduction of realistics.

The most corumon factors in the productrast blattler neck obstructions other than pretar denoma are postlyfilmmatory hitters in the me mes following posteror arethritis and creams nun. These condition at the onset are agramme. ir irufcent but have a dir not set of or prot muttent crethral discharge water infecting organisms & nous degrees fd. a. T. the vashing refer with increased frequency it's t even marked impaterer and occurred their t the end of stimation. Parker states that his ttention been rund to contracture of the bid der reck ith or ithout prostatic hipericity and that is the fea of ca ving montpower my molegul ha refunct t that du me in beating even when the bladder wa open and ma hanges could be seen and felt. I Parker eyes th Young peach ha given brikert man alt

error ing the 1 flavoratory 1 me not not not agree agood the face but around the enter motive vessell ring.

Tosteperative motivation is another type of traction both may occur after emokatical the proof t by either rost.

The arrows modifications of the) or perdire compared ad their respectivements of the

tom it sit to). The utber concludes that in min cres it buttertom I the neck of the blatter the cross in or only leaf infect on the tile remote led risterns tournam. The Maction is moderations tournam The Maction is moderational count technique the regard in the test metals for most cases of this character and the nod less than the conclusion of the contraction of modium but nuclear. The ros efficient and safe insurement for the surpect risk of such rost acturers.

The mortably rat h been pricticall all and hemorrhage does not occur. The preparatio of the patient is of the gre test importance.

18 turn per MD

Flisson, L. Associated Clowed Traumatic Representive Posterior Urreines and Minder (fewbation & Hers for replaces traumatiques in mers wouldes do institute posteriors et de la contributions has

Concomitant reptures of the posterior services and the blackler ith critical disjunction of the simple public or errors of the reports pack at any rice mass who as thrown from his hore. The symptom suggested repture of the blackler with

pel sciriet in August disclosed ertical dispostion of the pubes and respects of the neck of the bladder. The tar was stated as loss and the retropulse region as so contained that bladder softens was not attempted. Unpropriate drain its neerted and the spa. of Return tampoard.

Several days later an attempt t catheterization revealed repture of the posterior wrethra not t recognized at the first examination. Suturing of this ruptur was delayed for several months to await the closure of the space of Retzins and the establishment of the by normatric meature. The pa 2 trent left the hospital in excellent condition

In the hterature Pisson found only three other cases of simultaneous rupture of the bladder and 7.7 urethra following pelvic injury not opening the superficial trames, and these were not exactly the

some as the case reported in this article

With regard to the surneal treatment the author states that the method of choice consists in suture of the prethra and suprampho dramage of the unne When suture of the urethra is impossible, the treat ment indicated is suture of the bladder perincal drainure of the urane by means of a retention cathe ter and subsequent repair of the urethra by the method of Pasteau and Iselm If neither the bladder por the prethra can be sutured, suprapulse dramage of the bladder and dramage I the posterior urethra through the permeum should be instituted at the primary operatio and the urethra repaired by the Pastea and Iselin method at a second operation later on

The same result can be obtained more rapidly by opening the permeum and the bladder catheterizing the methra either by the meatus or by the retrograde route, leaving the urethra to occatruse over the sound left as asi and allowing the amprapulse opening t close secondarily after urethropenical continuous A A BHENA

Schiller H Regeneration of Resected Unmary Bladders in Rubbits, 5 g 6 ser & Obst 9 3.

Regeneration is usually defined as the re-forms tion of lost part or parts of morphological unit. or the new formation of lost cells from cells of the surrounding tissue. It is the replacement of part by a newly-formed part corresponding in form,

structure, and size

There are t forms of regeneration the physiclopical, such, so example as the constant re formation of epithelial cells, hair blood cells, etc. and the reparate e which we see as sequel to loss of times mostance following trauma. Closely related to regeneration is the process of compensatory hypertrophy observed in the glandular organs f

ertebrates (kidneys, ovanes tc)

The author experiments with regard t regen eration of the bladder were perf rmed on rabbits under 6 months of age. The bladder was exturpated down t the unsteral ornices and anteriorly close t the nrethra. The cavity left as scarcely large enough a bold 16 cm of fluid. Of the nm animals, only two were lost through infection. Within eight ten mouths the size of the newly formed bladder in the cases successfully operated upon was within onethird the size of the normal bladder A changes in the ureters or pelvis of the Lidney's could be found

The histologic findings indicated that these reformed bladders were the result f true regeners tive process. The muscle fibers and the muscle bundles in the new-formed wall were slender where as in hypertrophic and hyperplastic cond tions the contrary would be expected. Hyperplans no doubt takes place shortly after the resection but regenera tion acts in soon H " PLACEPHETTE M D

GENTTAL ORGANS

Ligation of the Vesetla (Epididy mec Sand, K. tomy) by Steinach Method as a Means of Reinvenation in Old Age and in Other Condi tions such as Impotence and Depression (\ aso hgatur-Tpaddymektomis—as h Stemach ango-andt als \erjoengungumittel bei Gresentum und anderes Zustaraden in Impotent und Depression) Louis f Lager o hrum 507 50

See months are Sand performed on does his first experiments on resection of the epididymis. He is now ble to report that the results have been lasting as well as brilliant. The first similar operation on man he performed in September 920 The effect of the operation cannot be regarded as true resu venation. The phenomena of old age re merely

somewhat retarded by the processes set up by the asobration

In this article the a thor reports fifteen cases Attention is called to the difficulty in rudging the results of such an operation and the importance of collecting large number of cases on which t base our conclusions. In every case the author carefully explained the problem to the patient and made it clear that the operation was still its experimental stage and that its certain result as sterility In order to exclude suggestion be had the patients ant p their own case records. The condition of the patient was recorded ery carefully and his weight, blood pressure, and dynamometer readings mer given

The technique f the operation is f particular importance Sand was not content with varectomy even t the canda, al ya performing an epidalymectomy. This must be done with the greatest caution Several centimeters of the endi dymns, high up on the caput, should be exposed with small instruments with care to spare the blood essels and nerves for the nourshment | f the testicle After exposure, Kocher clamps are applied at the upper and lower limits of the area to be resected Both stumps are cauterized a th Paquelin cautery t maure excatrination. The tumes propria is closed

th pursestone enture

The case histories re given in full From these t is seen that the patients suffered no harm from the operation and were pleased with the result There was wide variation as to the time if the appearance f the reaction. In this connection it must be remembered that there is an extraordinary dif ference in the condition of the tasses of the body especially in older persons, in many of whom they

are so much altered that my regener is no most of the question. The said of federes he justified in stating th. I thinks operation it is possible to influence the organ in in the sense of timulation, regerent on or testit then but soil to the sense implied in the terms is just those. In title

Number 1 L. An Analysis of 1 000 Testicular Subat nee implant tions. J & 27

The Dijection and one that has been of the above at a taken to the translation of that if one only been into a trape of bif for a pressure on go imitant the fleck part in one give be for some very fair resting result. The take from the self the order of the order o

The rull of these food in torest curr d and on not men indicate that it is the substances he adocted effect on general schema. This term is placed to the orbitant of person hose to make the standard to the orbitant of person hose to make the standard to the orbitant of person has been presented to the standard to the

If re do.

The treatment does not care unjustency. Though some of the new treated he had had no see I in nuferitations for ears reported rea. I from tion three of the patient who renormal war like before the implant two sported that term of their potentialities. This expect had drappe red.

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Mackensie D W. and Seng M L. The Prostatic Problem Surg G are of the 9 g vers

The uthors do not sell t dry comp those bet een diff test method of performing prost tectors) but deale eather to describe the many which is go en them the best result in the Department of Undops of the Rocal Victoria Hop-

I their had the operation is his most be three templates simplant of insurprised evand saids in performing. I satisfactor feel tends the so-called to stage suprap is produterious.

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taralist. Iteration being posit frequence discusfrom texts and alteration. The service area of alteration in the service and their homes of the proof of this as many
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I appet physical existences is take the brethest physical of the wether and the fer transation of prost to obtainst in the assertion of the relation of the test of the prost to it deserted as particularly per rectain. Not four, I establish the estimate of the blood press in his frequently is high and I like to a force or apon redsh of the rectainst Rejected in the second prost test have a prost test have a prost test have been presented as the prost of prost test have been prostated as the prost of prost test of the prost of prost test of transation and test of prost test of transation and test of prost test of transation and test of the prost test o

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cound drain of soldderm graze or agenct drain in placed in the space [R trus]. It is despited from the blocker improved drail in the bricker improved drail in the bricker improved drail in service and the bricker improved drail in the process of the truster and applie to govern and the tube, many [and] temper

[mer ∽tr

The second stage—the prostatectomy—is done ben the nationt has become good surgical risk

few seeds to few mouths later The enveloation of the prostat is performed ander ous angesthesia ether is rarely used. Ether

encesthema is not contra indicated if it is lest saffi cent t cause relaxation and brief ad if the ratient a general condition warrants its use

The prostate is enucleated by rupturing into the roof of the prostatic urethra, finding a line of cleavage, and shelling the prostat out assisted by two fingers is the rectum. After its removal no tube is placed is the bladder. The wound is covered with a sterile

A motime to lessen harmorrhage has been the administration of house scrum subcutaneously and to st. of calcium lacted, by month every two hours

before and after the operation

A nume is detailed to the case to remove blood dots and change the dressings whenever necessary After three or four days the bladder is irrusted daily through the suprapulac sanus. After a week or ten day urmention may be done by catheter through the prethra. And sodium phosphate and ter are given. The wound is kept clean by frequent dressings and stimulation. At the end of two or three weeks sounds m y be presed CROCHOWLEY VID

Barney J D., and Shedden, W M A Study of Assethesia in Prostatectomy Sare Clus 1 A≈ 9 11, 093

The authors have undertaken a study of patients operated upon for different types of struction prostate. The average age was between 6 and 63 years The youngest as 4 and the oldest 53 The blood pressure was 40+ systolic and 84+ directore There were 5 needbesies spinal in artrons oxide oxygen in seventy eight, eiber in axty eight and local angesthems (infiltration of the gland and secral) in four The total mortality was 8 8 per cent. In the forty seven fatal cases spinal anzetheus was used in twenty eight (7 45 per cent) ether anzesthesis in eleven (6 i per cent)

and natrous oxide-oxygen amesthesia in eight (per cent) The chief cause of death was sepas in twenty cases (4 5 per cent) poeumonia in seven hemorrhage in mx, renal insufficiency (uramia) and circulatory disturbances (embolus, apoplexy

tayocardita,etc) in fiv cases each. In four matances as impossible t determine the cause Permeal operations were done in thirty cases,

all nine deaths (50 per cent) and suprapulse operations in sevents one (thirty t operations) with nineteen deaths (16 7 per cent) Of the o cases twenty nine ere given tropo comme t enty six norocaine sixteen apothesine, cupit novol, three processe. The drug employed in nincteen cases as not at ted, but probably was tropococaine Cancer as found in bout per cent of the cases, and nearly one third of these patients died, as compared with less than one

6fth of those with adepoinata. In any considerable errors of cases of somel anesthers spmal reactions ranging from nausca and vomiting, sighing respira tron and soft slow pulse to an alarming syn drome characterized by incontinence of faces cyanosis, profuse awesting, a thready soft slow pulse sighing restlements, and stupor is to be pe cent expected in pearly

THOMAS F F VEGA M D

Bryan, W. A. 1. Recurrence of the Benlen Prostate Surg Grace & Obel 9 3, ren 50

The utbor intends the word recurrence mean the f rmation, at longer shorter intervals following what had been considered a complete prostatectomy f masses of prostatic tissue reproduring the original sympt ms caused by unnary charmetron

H uses the word beingn in the sense that ch scally and microscopically the secondarily poramos

growths were not mahenant

H points out that there cannot, I course be a true recurrence f removed pathologic tissue and that apparent recurrences are due to the growth of prostatu labes or tessue not nalrabl at the time of the original operation which began to hypertrophy after the removal of the rest of the gland. He reports three such cases in his practice and draws attention to the necessity for bearing this possibility in mind in passing risigment on the work of previous H S SATTOND M D cogrator

Schinz, H. R. Contration of the Male by the V. Ray (Ean Beitrag sur Rocatges Kestration beim Mann) Schartz med Hick selv. 9, kt 836

The author custrated man 34 years kl by means of the \ ray Just as m the female the func-tional condition of the overes makes difference in the dosage necessary to obtain one of the various degrees of castration, so also in the male different doses are necessary in order to btain one f the three phases of castration discussed by the 11tho The determination of the dose is en difficult as clinical signs indicating the time of spermatogenesis upon which the size of the dose should be brised cannot be determined

The phases of castration d the doses necessary to obtain the denied degree of cartration regiven

Temporary sterilization with clinical obsonecrospermia. Necessary dose it least 14 per cent f the skin unit dose in the mile 30 per cent in the

Total permanent aspermatogenesis Domge bout to per cent of the skin unit dose in the male in the female with Wints exorulation, 32 per

Total castration with destruction of 11 the const toent lements of the testicle. Dose for male not yet determined in the female 34 per ce t of the skin unit doer ROSETTSUMA (Z)

MISCELLABROUS

Nichols, B. II : Important Points in the Technique of Rorntgenological Framinations of the Uri mary Tract Am J Reserved 19 1 5 0

When a creat is referred to the treatgesological laboratory for sumbation dispassive plates are made of the entire urfu ry tract. This is ually thout prefure try preparation and if surpicion hadow i found second examinatio is made feer thorough leanung of the ho of he sahne cathartics and exemps. The teckrique employed const to of the use of d platted films with double screens and a l'otter Bucky di ph gur and a mit ted rubber bug for compres wi

If a defi is shadow i sealured in the ladars at a an attempt I made t locate it accurately by making prologram If it is us the pel s, the injected fluid as ally obscures the stone I su proposa abadon in the ureteral rea on either si le i checked by cathetenzation of the areters. The opaque catheter and fibns male t t different ang'es to determine the proximity of the had w t the c theter. At times even this procedure i not sufficient I also whether or not the shalow is that of stone the the uret If the unit t is dilited the sh dow may he it some distance from the catheter in each case - unterceram will at e the required information

The runlets are also per and perution of the kilder in included in every report together with at tement a to the preserve of pa al lesson or approther pathologic condition of adjacent ore

hick may i) a) account for the imptom. When the almost wo leads mention is made of the possibility of the subdity of stooms in small percentage of cases

If all the findings to negative tal the lineal appropriate and battery under to disease such adds tional procedures catheternation with opaque eatheter and the lection of op que media int the hydrogenbrou by dre prefer deformed Luthey pel

vis and obstruction or blake in the entire pay he demonstrated. A so per cost solution of soiles to hade in the most satisfactory solution for pyelog raphy Rorntgenograms are made to but the horizontal and the vertical positions. A modified Young enstorage, table with a Porter Burky d phragm but ir to it has been found to amore protically all remarement Apoure Huercas, Milita

Phendeuth, D. N. Newer Aspects of Littuary for ters J for to M Sec 9 3 to 15

T make a diagnosts of a surgical affection of any trart of the amount tract one great be made to anoth all f the modern methods. (If the menul methods of dumment benefits a second red Pselography I talities which formerly followed this proced or ere due to the pressure like bek the liquid was injected and to the termity of the drag. These dangers have been entirely chromated by the use of sodium bromide both is not for and by allowing the solution to flow in by gravity from a height of 1 ft

I routed prober at all each to the labor h cases of belomical tumor prove the present of hydrosephrous, and go a characteristic picture is destruction I to less betase renal secretario rakulas and nomilies Uniterographs articities

raph) are creally social

Methods of treatment has Improved outspondingly lifer use of early duganess in matter methods, from 33 t. to per cent of cases of resul tuberculoid are permanently cured. Lavare and strainage I the renal pel is ha made it possible t oniers large number of a heers hich for merly ould he been removed. The arthor has obtained the best results from 1 t 3 per cent alber natrat If states sarekentally that he records the possibility of read infection in erect case at obscure feser

Evendrath ttempts t remove small calcul by triang the sieter by procupe and pipitities sel dilating. I the majorit of cases such tiest

B F Route, MD

teret a successful

SURGERY OF THE EYE AND EAR

TYE

Hegg. G. IL. Pemphigus of the Conjunctive. Med. J. funitalist, q. 11,156

The author reports four cases of this rare conditon which were collected during twenty air years of aphthalmological practice in Tampania

hope of the patients exhibited any signs of syphiles The ethology is unknown, but cultures from the confunctival sacs revealed Friedlander's doubthern bacillus and Gram positive and Gram negative cocci. Probably some of these were due to

contammation Perphigus of the conjunctiva begins with redness and sticky, non-purulent secretion I some cases there may be small papules or bulle, but the actual bulla is seldom seen because the epithelium of the conjunctive is so delicate that it quickly breaks when it is raised up by exudation. As the process progresses, excatrization and shrinking of the con-junctive take place slowly the conjunctival culsde sac becoming shallower and finally obliterated, the folds of conjunctive stretch from the has t the eyeball, and the movement of the eyeballs becomes purpaired. The secretion of the eye, which is at and moreused, becomes diminished, and the surface of the ey becomes dry. The corner becomes opaque and may alcerate in advanced cases it often becomes dry and lusterless and fine scales may be shed

from it. Trichissis and entropion may develop, and the hot may become totally adherent to the eyeball The prognoses is most uni vorable, treatment seeming to be of little vail when the eye mouth and

threat are involved

Americ, which is often go en, seems to exert a beneficial influence of not on the ey condition at test on the general health. Mercury and sodules has been prescribed in error the condition being metaken for syphilis they ha effect and should never be used most harmful Soothing lotions and only pplications may be employed for the eyes, and, a necessary operations may be performed for the trickians and entropion Nothing, however has a permanent effect C CORBEN YANGEY MID

Stack, II II The Etiology of Sympathetic Ophthalmia. Am J Ophia 93 1, 29

The theories as to the etiology of this disease fall late groups corresponding to the different periods ol development in medical science. The most recent is Electron, theory of anaphylams which has been settingly confirmed by \$\lambda\$ confirmed to \$\lambda\$. other my estigators express doubt t the possibility of the development of an auto anaphylans had ma holds that any tissue of the commay prod ce more than one ningen some of them common t

all the eye tissues, and others specific t a special tusse

According to the most rational theory the antigen a developed through endogenous infection of the used tract by micro organisms which may remain m the host for many years. The t OCCUPANTS. known to cause chascal symptoms amilar to those of sympathetic ophthalmia are the tubercle bacultus and the spirocheta pullida both of which at times decaded affinity for all the trames of exhibit the eye The complement-fixation test eliminates syphilm as the primary factor

Four arguments indicating that the tubercle bacil-

factor are presented About two thirds of the cases of ophthalma develop in early life, when slight or no immunity has been developed. This is in agreement with Mac Kenne observation that cases are most common in semfulous children Although as a rule the condition occurs within a few weeks after injury, in some cases it does not develop until years later, a fact indicating that the infecting organisms may be present. I that time of the injury but remain dormant. This is true of the tubercle bacilles. If immumity becomes lowered, the bacille may be distributed by the cir culation and track weakened or diseased theme

The clinical meture common to ocular tuber culous and sympathetic ophthalmia is that of choroschitis, papallitis, plastic indocyclitis, and

nodules in the uni

3 The ordinary pathologist is frequently unable to differentiate between the t o conditions 4 Gifford's method of using saliculates corre-

sponds to the treatment f scientis, which is believed to be due usually t tuberculous The author has ttempted to produce an antiren by culturing t berde bacilli in a medium containi g the uveal tract and also in the living eye. The result

of these experiments will be reported later

C CORDUN 1 NORT 1/I D

Knapp, A Metastatic Thyroid Tumor in the Orbit. Arch Opich 0 3 h., 68 Conheim was the first t recognize the fact that a

strums may cause metastases. Such a truma he called a metastatic benign truma The metastases occur in the bones and in the lungs

A case reported by Kmapp was that of man 66 years of age who presented humself for examination complaining I discomfort in reading and soft mass in the upper margin of the right orbit occupying round defect in the bone where pulsation could be felt. At operation the mass was found to be a tumor is the medulis of the bons in olving particularly

the anterior part f the frontal bone th soft, dark red material which was dherent t the periosteum below and bled profusely. The boat walls of the ca lity wer smooth. The pathologist report was adenous of berrant the relationships a produce a best of the case.

The pathologist report was adenous of her rant thyroid structure reproducing thyroid structure to the smallest detail many shroll containing soft achiephile colloid surrounded by flat thyroid cells.

h) mptoms of other metastases appeared one and one half years I ter in the orbit scapela, ribs, lungs, and pulss and a distinct tumor extending behind the steraum was discovered in the throad gland

The metustases of admocarcinoma of the thyroid mat show normal thyroid admocrations turns. They goes showly. The premary tumor in the thyroid is wall and excapes detection often not being found until the laracter of the metastases is recognized.

Smith, D. Factors Influencing the Choice of Method for Cuturact 1 traction. Inch Oyleaore Id. 3

No slegic method of cataract extraction is entirel

satisfactory as routine for all cases. The methods condition (typical after capulation and extraction in the capulation and extraction in the capulation by traction. The traction methods comprehe traction with the forcing, a recommended by terhoof and (recursood, trust in by means of accusation methods are not accusate, in Barraquer's method, and combined traction and

herefore sected. In combood servers and presents a decard by Kuspy and Turk.

The factors which multipote the choice of method are considered in latire groups, the first including the age of the patient; the type and the stage of institution of the extract, and the presence of complication the among the presence of the comparation of the cardinal properties of the patient of the act of the creates and the little the conditions affecting the operator such as his 4401 not translig, the frequency, it his his he operates, and the qu'! I you for patients.

his distance.

Amith distinguishes three t pes of cataract in
hildren, the membranous, hilch be extract in th
forces the milky which he needles and the felly
the document cat ract. Aich he removes by toseur

ext action.

In case of sende entarset the younger the patient the smaller the suchus and the strooper the (tachment of the lens, both nouslive and by shoul. Therefore the Smath method I pit to be usefulned and reproductors, should be done on all pit better under an extension of and most of those under an extension of grand most of those under 30.

Six types of lenses are distinguished in semile cut ariset in the immature a ollen, mature small a permature thin hypermature, and scleroed the permature of the semile control of the

predict the size shape and consistency of the less bd the strength of the cupsule correctly remains needs experience

Ilighly myone eyes are perhaps best treated by the gentlest especiatory operation in hich the smallest actions is made that all allow the cusy excise of the nucleus In evers with tendency to glancoma intracapsular attraction vector to be safer probably because of their freedom from soft lens matter blocking of the pupil, ad capsular tags in the wound

Bulgary ever and tightly fitting hole are not suited to any type of intra-ocal notation. For the eyes of poorly nourished persons which are sunkers and deep tot and have facted lid the intracepositar extraction is soles. The predominance of this type of y, in India is majoria's factor in the success of intracepositar estruction is that country.

Cases of small corner are assumable for intracapsula extraction unless the entire section is made well in the sclera small corner do not imply small knees nor shallow anterior chinhers and in these cases the sclera may all my be safely trans-

fixed
I tracapsular extraction by traction requires
trong a peake such as is to be expected only so the

very list mature and hypermature cases and membraneous and after catavact

Dislocated lenser and cases complexited by gl roms or useal disease—site extraction in the capsule. I tracapsular methods should be chosen only for cases?— hich they ar definitely inducted.

Filler R. IL. The Met and Halos of Gleucuene

The bects ymptoms of glucom are closely secured as imptoms rating from the diffraction of light. The halos belonging to glucomy arise in the corner and must be distinguished from those due to

the cryst lime len or produced by ir bubbles or cells on the correct surface. Elliot reports—careful study of the differences observable between these kinds of halos, all of

which are considered diffraction phenomena.

As this excellent discussion suffers by condensation, those interested should refer to the original article.

Connect Service M.D.

EAR

Kerrison P. D. The Imprevised Artificial Dram so an Ald t. Hearing: A Study of Cert. in Prin. ciples I. relved. I arrages: pr. 6.3 status.

The first demon trable f nctional change in hearlog in cives of chronic catarrial outsi media and kindred lesions ith an latact drim membrane is

ery slight loss of acuteness to the bearing of the conerrational once and diminished bearing distance for the "the recommeter" Frequently the patient can hear the ordinars witch out few inches from the ert or only on contact, table be hears rewiscal tones dow it twenty are double intertious or even

lower.

When there is considerable destruction of the drum membrane is not thout partial destruction of the malliers, the first functional change is decrease in the learning range, it the lower end of the musical scale.

Perforations in Shrapperi a membrane do not have any influence on hearing

In cases of extensive perforations of the drum membrane a bit of sterile cotton flattened and cut into a darchke shape and applied against the per foration or against the tympanic tructures present use t the fundus of the canal ll often increase hearing Omte as often, however t is bsolutely thout influence. It is thought that when the cot ton due a heneficial t finds is orable contact with the concular chain, re-establishing the condictio of

sound es along the normal pathway The change in balance is perhaps the chief factor in the pronounced deafness in certain cases in which the drum membrane has been destroyed and in varying degrees is a contributory factor in all such cases It is obvious that whatever reduces the difference bet een the respective degrees I mobility of the osucular chain and the round indox mem brane under the direct impact of sound we es must necessarily interfere with the movements of the cochlear fluxla and therefore red ce the bearing DOWN

The author reports a case of chronic suppurativ otitis of both ears in which a cotton duc was posted to the remaining portion of the ossicular chain in the right car without any improvement in hearing. A thin slip of paper saturated a th sloobol was then placed against the postero superior can'l all and by means of cotton applicator slid ard and downward into contact with the inner t mpanic wall so that it passed over and pproximately covered the region of the round window. The pa-

tient immediately remarked on the impro-ement hearing

Kerrson has tried the paper slip in thod but found that in a number of cases t failed. Cases of deafness due to firm ankylous of the tanes a thin the oval window are among those logically giving negative results. In some cases the use of both cotton dusc d paper slip gave good results

TORRS C BRUSSELL M D

Lillia, H I A Septic Type of Temperature N t Referabl t the Ear in Cases of Acut Suppurative Otitus Media A Other Rheef of

If patient ith acute suppurative of tis media has sentic type of temperature, the natural tendency of the otolaryngologist is to ascribe the fever t exten mon f the infection from the ear and mastoid t the surmost and lateral mans. It has been well established in such cases that in taking time t make

differential diagnosis the physician does not en danger the patient Such a course may reveal involvement of other structures which will coount for the chancal pact re

It is belie ed that in five cases reported in this article four different disease conditions acted as causal factors of the septic type of temperature, namely pyelitis central pneumonia, an abdominal postoperative condition and a gastro-intestinal disturbance Treatment directed t these conditions poeared t clea up the symptoms, while operation in at least one would doubtless ha resulted fatall

SURGERY OF THE NOSE THROAT AND MOUTH

BOSE

Blackwell, H. B. Some Clinical Observations on the Correction of External Deformities of the Nose by the Intransasi Routs. Larystonete. O I XXXIII

Concave deformities approaching and including the saddle-back nose, whether caused by syphilis or transpa, are corrected by the use of rib and carrilers stafts about a in in length, taken from the anterior end of the eighth nb The graft is split from aids to stile and from end to end and interted through an intrangal momon t the prococutaneous marron of the vestibule, lateral to the septum. The amouth carried surface of the rib is placed uppermost and the price and of the graft placed in contact with the lower end of the frontal bone. For lemer deformaties of this type a cartilizations small from a name spor or from the acptum is used

I cases of convex deformity the beak-like nose. an intranasal Incomes to made in the aidt narts below the deformity, to one side of the praction of the septum with the lateral all of the none. The on cavity is removed subpenostally with forcepa

Lor the correction of lateral cheplacements which are frequently amounted with deflection of the nesal scotum, a submucous resection is don and the mass bonos are refractured at their trachment to the frontal bone

I cases of long nose or nose with low tip and cases in which the septal cartilege is lowered with corresponding elevation of the lateral slar cartilage the soft tunnes of the next partition below the cartilaginous septum are separated from its inferior edge by a through and through incision from the mental process of the superior manila to the tip of the nose A second incision is made low down over the bridge and the lateral aspects of the pose and the soft parts are freely elevated. To elevate the tion a transpolar perce of cartilege with to perschondrium is removed from the lower edge of the septum, and the soft septal tusties are united by through and through sutures

General anaesthessa is usually employed. After the operation aseline is applied to the skin over the nose and face. I cases of convex deformity and lateral displacement, thin wet pad of boracic cid saure is placed over the nose for twenty four t W B Smar M D forty cusht hours

Stein, O. J. The Intransed Injection of Alcohol in the Treatment of Hypermethetic Rhinitie and Some of the Nami Neurosce 1 Onl Rinari & Laryagel 9 s, xxx

The vanomotor disturbances of the nose may be trested by direct thack spon the nerves or by an attampt t descriptivation. The results obtained by the latter however have not been found very mine factory

In every instance a searching survey of the name chambers should precede any radical method of treatment Local pathology in the nose should be

dealt with properly

well recognized fact that the ereat fifth ners and its milmate connections with the sympathetic and motor native systems plays an important rôle in a variety of disturbances arming from ts stimulation or unitation, whether this takes place from within or without. Just why initation of these perves abould be followed in one instance by pain, in another by reflex asthma, in another by throughors, and to another by the so-called hav fever syndrome is a physiological engiomical study which opens up an ammense field for speculation and investigation

The distribution of the intransal nerve supply may be divided int in divisions. The enterior drymon is the name or ethinoidal serve. The postersor divisions re branches of the submopulating gangbon. After the production of local aniesthesia th cocuse the anterior division is injected at its foramen or where it enters the nose. A sponselly designed needle and synage are used for this pur

In injecting the posterior division the report of the sphenopulature forumen is the point of election A special needle is used also for this purpose. The tavectors should be preceded by the application of

cocaine to the region of the ganghon.

Alcohol is the most suitable substance for mysc. tion became it is sterile, non-toxic and non-corrosive A 75 per cent solution of absolute alcohol with sterile water is used About to minims are employed for

each unrection The innersonal activity of the perve is restored to

normal within a variable period. Seasonal cases may require to myection cach scason. The more exact the injections the more effective and lesting FRENCE K. HAMEL, M D. the results

Grove, W. E. Mashape in the Peneture and Irrigetion of the Maxillery Stems Are Old Physic b Larrage on Erro, o s

In 76 a French dentist, Jourdays by sense of touch alone and without the use of artificial illumi nation, progetted the mazillary stress through the cetsum mambare. In \$83, Hartman reported three cases cured by irrupation through the natural open-ing into the antrum, and in 880 be treated thirty two cases by irrigation through the natural opening or by perking a dail cannol through the posterior fontabelle

Panetime through the inferior meatus for aspiration was first described by Moritz Schmidt in 835 Licht its, in 1850 syringed through the inferior uestus, and Capdepont, in 804 practiced air in fation by this method

Gurhiz discovered that the veins of the antral mucosa are very numerous, and that frequently there is thick venous plexus, sometimes on the

orbital wall, sometimes on the nasal wall

Grove has collected the reports of fifteen cases in hich death followed antrum puncture air inflation, and irrecation of the antrum. In eleven cases it occurred in a few minutes and in four at the end of a penod varying from a few hours to thirty six bours. According to the case reports in which sufficient detail was given the ante-mortem symp toms were very much the same in every instance There was striden collapse with unconsciousness, cyanosis, pulse and respiration changes tonic adclotic contraction of the various groups of muscles or of all the muscles, and sometimes epileptiform attacks We must therefore assume from the more or less common symptomatology preceding death in all cases that we re-dealing with causative factor which is common to all of them ture was done seven times from the inferior meatus and three times from the maddle meatus, the route In five cases was not mentioned

Autopues were performed in seven cases. Three energiates In to cases must be hemorrhages or signs of stans were discovered in various organs and in to cases all was found in the circulation. Borsen case showed a detached thickneed mucous

of the sanus with needle ound

Another sense of trendy since cases collected from the literature included treatify five cases of practice and impation of the manifery same and one crosses of matters for cases the practices as done filters. The contract of the contract from the contract of the contrac

In third group of cases, six in umber the common symptom was transitory blindness

mon symptom was transitory blindness.

These three groups were similar in many respects.

The complications—ere—pparently not d e t in

fection of faulty technique.

A fourth group was made up of cases in which the complications were caused by forcing air urngating find or products of infection into the tissues adjacent to the antrum during the act of puncture or cent to the antrum during the act of puncture.

urugation There were no l'talities.

The author reports the case of young adult who had an cate manillary sums infection with redness of the left ey and pain below t. Treatment con ostich of infraction of the middle turbinate sollowed material of infraction of the middle turbinate sollowed.

by shrukage and section for one week and them unraption of the antrum Seventeen days after the beginning of treatment, i c cm of a per cent proting angle should be set to be seen as the contraction of the strength of the strength of the strength of the strength was made to introduce a second c cm the injection caused extrusion if the both marked subcutaneous welling of the upper and lower lid, and great pann in and around the cy. Creptations could be felt in both the upper and the lower lid near the inner canthous

Treatment by the polication of heat t the ye catharms, and sweating was given. After twenty four hours see was used instead of heat. Optic

arrophy developed and the sight of the cye was fear. The supho believes that the causative f ctor was the same in all of these cases—to the complications did not occur at the time of the puncture time that developed later during the period of air inflation or symmony the puncture itself as cause can be eliminated.

It is improbable that cocain or novocaine poisoning was responsible for the complications as many f the patients had had previous cocaine or novocaine anesthesia without untoward results.

Ts other possible causes are () a masal reflex through the agus and trifactal nerves, () air embolism

An embolism a thought to be the cause of the complections in the cases of Group—and in most of those of Group: The ir enters the circulation of ing the inflation—if the antirum through the puncture of—in in the antirul mucosa proceeding by—if the facial and jugular vein t—the right heart.

The complications in the case reported by the uthor are tirrbuted t the underlying infection of the sinus rather that the codent which occurred at th time of the irregation

at the time of the irrigation.

The following conclusions are draw

Puncture and irrigation of the maxillary unus are merul diagnostic and therapeutic measures

It makes little difference whether the irrigation is done through the inferior or the middle mentus. The use of the middle mentus is probably the exacts for the patient.

3 The procedure as formerly employed as not entirely free from danger

4 While the effect (the numberic used ad

vagus irritation cannot be tirrily eliminated, the chief danger lies in the ir inflation rather than the act if poincture or the irrigation 5. The procedure can be made comparate ely

safe if the use of air before and after irrigiting is avoided W B STARE, M D

Blackwell, K. S. Carcinoma of the Antrum of Highmore Surg Clin \ Aur. 9 z, n, 445 The uthor reports case of carcinoma of the

antrum treated radically as follow.

After multiple ligation of the left carotid and the removal f accept h mmb modes for examination.

removal f several h mph nodes for examination an incision was made over the left superior manila, beginning on the left side of the nose and following the nose around to the midline of the upper lan The lip was cut through and the flap dissected back The bony wall of the superior manife appeared normal F r exploration, the antrum was opened with a chief and the opening enlarged. The bone

t this point which as the a tenor wall of the antrum, seemed normal. When the opening as enhanced a mass of turnor turnor in the back part of the antrum was exposed. The wound was thoroughly cautenzed, and an incluon was made below the lower left eyelid from the upper end of the lacinon along the border of the bose outward for distance

of about 14 m Another incision was made in the mucoperiostes! covering of the hard palat a little to the left of the midline. The bone of the alveolar process and the bone of the hard palet were cut through the bone forceps and the trachment of the lower part of the superior manife to the upper portion beneath the orbit severed with bone forceps. The lower portion of the superior manife was then removed, the orietal plate being left intact. The tumor occupied the upper and posterior part of the antrum, and seemed to have some through the bone at one point posteriorly and to the outer side. This extension, however was not great. The posterior palate bone and all of the soft structures of the palat remained intact. Following the removal of the tumor with the personnal elevator the hone and soft tusties were thoroughly canterfeed with the Percy castery. The entire raw surface of the wound was then gone over thoroughly with a sharp electric centers, and every raw surface was well cautement to prevent implantation. The septum bet con the astrum of Highmore and the named cavity was completely removed. The cavity was pecked with sodoform gauze, and the wound closed with interrupted sutures of fine alkworm-gut The packing was brought out through the mouth

The patient made a satisfactory recovery and was discharged November 9, 10 Durmer the first ten days in the horistal a good deal of slough sepa

rated from the burned area

On March 9 9 the patient returned for exammation. At the roof of the wound which correspond ed to the back part of the bony portion of the orbit and the these immediately beneath it, as an area about 16 in so diameter which presented granular appearance. The rest of the wound was smooth and firmly bealed, and showed no signs of maleg nancy A frozen section was made of tassue taken

from this region with a curette, the ound being immediately thereafter dumfected with pure car bolic acad. The section showed cancer of the aqua mous-cell type Three needles of radmm, each conmgm were inserted into this portion and left in for twelve hours. The patient returned at intervals, and the area of cancer seemed to become

On June 10, 9 a small area in this remon still presented somewhat the appearance of cancer A frozen section showed cancer of the same general type as that found at the operation. Sixty milligrams of radium acreened in a copper t be were instened t this point by hien suture, and gauss was packed so as to hold it in position. The radium was removed after twenty four hours. A week later there was considerable reaction not only in the cancerous area but also in the surrounding healthy tusnes. This gradually disappeared less ing a small surface of necrotic timos corresponding to the area of the canceroos growth and extending short dis tance around it

When the patient was last seen on August 5 02 there was no evidence of recurrence

O M Rote MD

HOUTH

Fischer, M. H. Some Physiciogical Principles in Orthodontm Internal J Orthodox Orel Surg & Ladugraphy 923, 12, 6

Orthodonic procedures should be unitiated early as bose absorption and bone deposition occur more quickly and effectively in young structures

Slow correction is better than quick correction as t is associated with less danger of tooth strangula tion and allows bone absorption followed by bone deposition athout the hazard of bone necross such as invariably follows excessive and too rapidly applied pressure

Correctures which poly counter-pressure to the pre are always preferable to those hick poly counter pressure to the individual treth as the juws can withstand greater pressure than tooth mov able to its societ. When pressure is applied to the teeth t should be policed to as many of them as

The poor condition of many teeth in infancy is due to distase Nourahing food as emential to develop the treth and bring them into use

JAMES C BRANKELL M D.

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EDITOR S COMMENT

N index, ordinarily is a prosent thing a necessary evil which from the standpoint of readability and interest is classed with statistical tables government reports and the dictionary. To the editors of the ABSTRACT the index means something much more. It represents in the first place, a studied effort to classify and group the abstracts of the preceding six months na such a form as to make them readily a sulable for the busy surgeon. No one who has attempt ed a similar task will question the amount of time patience, and painstaking effort required to prepare a satisfactory index of so many and varied subjects. Many surgeons read extensi ely few have a sufficiently retentive memory to say six months later where that interesting article on the repair of facial defects appeared, or who described so accurately the technique of the operation he wishes to perform on the morrow A well prepared index of the best current literature promptly answers these questions. Simplicity dearness, comprehensiveness then, are our first concern in compiling the index

It serves a second purpose, of primary importance to the editors but ultimately of still greater significance for the reader. It is the constant aim of the INTERNATIONAL AMERICANT to present to its readers a concise account of what is going on in the minds and chinics and laboratories of the world's leading surgeons. That is an ideal worthy of the best effort we can command. Many a man, as he reads his journals, shruga his shoulders and 12) s, Same old stuff Sometimes his criticism is justified but every month, from some labors tors in France, some clinic in England some horpital in Germany Italy or Spain, from Canada or South America, from California or Connecticut or Colorado come contributions of interest, of importance, perhaps of far reaching semificance, to the practitioner of surgery. Ha e we sucreeded in recognizing them, and in point ing them out to our readers with the emphasis they deserve. The answer is in the index. It comprises the audit of our six months work, the measure of our success in presenting to our readers the means of keeping abreast of surgical Togget

We has a taken at random from the index which appears in this number four important bends to illustrate how the subjects in question are covered in a single volume of the Abstract Breast Nerves Pregnancy Uterus

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JUNE, 1923

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Michigo discusses the normal and pathologic physiology of sounds and the basings I bearing processor. As contrast of the basing of the same association of the same and the provision of granulations as the provisional cloning. If of the surface of the bod. This is directed partly, guarant the outflow of body pares and partly against the penetration. I sub-flares from the exterior.

It has been assumed that the fine cellula proc case in wound brilling are set in action by bor coses ink are freed by the decomposition of the bases as the repon of the injury (Barr) and tand a close relationship to a phenomeno designated 510tropara (Ross) Distribunces of wound

healing und de those of general and those f local nature. In the former th comst tution I the subject and severe general discusse play an important part also the condition of the endocrane glands. The causes which may contribut toward retardation or prevention of wound healing are therefore extraordinarily, manifold.

ASEPTIC AND ANTISEPTIC BURGERY

Rowell, H. G. The Surgical Importance of Iodin Idiosyncracy and Potenting Surg Guer & Our 9 3 EEE 0

Is sodine is disinfectant for skin and open wounds commonly used by the lasts and the medical profession the other calls it took the fact that in rare instances—patient may exhibit an dissyncrasy t the drug its use being followed by conditions ranging from—local lease—t death

Report of whose sidewareasy in the literators deal largely with cases in which oddes were negated those in which odine was used externally being few it is generally believed that very small does can produce the reaction bence the try of small quantity through the skin may be sufficient Orms by sister that the physical reaction to the drug, and not the dose as the important factor. Com maintains that the drug sliegy we not essentially different many toward not medical substitute of the view of the contract of the contract

Access exported by Rosell was that i man of years of age who was dontted to the Massachusetts General Hospital for gatthe tudy and with the distincted dangered ingonous of impunited berman of the left wide and cellurgement of the protein. His hatery seemed I worshie scrept for an attack of gonor-bors thirty three years before which was followed by gleet. Ten dawn sifer his dimension to the opportunite with the protein the days after his dams may be of the best was operated upon for chrome appendictus.

din 6 my one of, and accolerat, 6 motive erose on disclorating delivery to a piece communication, so, action of engets and sections of properties one, by, madeal species control of the section of the s

33 interiored of cancer of write modernic immediates, 35 statistics of Centensian of 35, sectionspie as one pared with choical diagnoss of enlargeast prophesis of the control of the con section under local anesthesis. th temporary firstion of, 473 acute complete inversion of, 473.

The man who has turned to his recently published Principles of Surgery or System of Surgeral Diagnosis and Treatment and found they lack some of the facts he needed most to know cheely because of the time inevitably consumed in the collection, editing revision, and mining of standard tetriboods, will be the first to recognize how completely these subjects as a whole, and how well recent due dopments along these lines are covered in the current olume of the Astract.

One word more The abstracts of original sattlets are written by surgeous, new whose interest and activity in their particular fields are altested by their entihusastic co-operation in the work of preparing the American The review they present are untelligent, discrimanting reports written with the one files of presenting accurately and concardy the viewpoint and ideas of the author.

INTERNATIONAL ABSTRACT OF SURGERY

TUNE, 1923

ABSTRACTS OF CURRENT LITERATURE

GENERAL SURGERY—SURGICAL TECHNIQUE

OPTRATIVE SURGERY AND TECHNIQUE

Teachied, B. Hypertonic Glucose Solutions as a Prophylactic Algebra Injurious Effects of Operation and Annoshieds (Hotobyeaucitips Teachiesackerlo-ungen, on Proph, lakiteam grant Operations and Nationescherden) Learnell f Chr. 1927 xix., 47

On the evening previous t a major operation of the most attent oper cent glucone sol tion are soly in great in the ultimar ven. Concentrations of tion not go per cent my takes be used. The only superant of effect is childrens. The insection superant direct down the control of the control of

the two operations and the state of the stat

Nachton, E. The Physiology of Wounds (Ueber Rench), solope) Bertr kl Ckir 9

Michaer decreases the normal and pathologiphysiology of wounds and the bology of healing process. In the normal process of the pronounced from the process of the prosounced from the process of the prosounced from the process of the process and partly against the outflow of bodyners and partly against the penetration of substices from the extensor.

It has been assumed that the fine ceilniar proctees in cond bealing are set in toon by bor focus such are freed by the decomposition of the bases in the repon of the myary (Ber) and tand in clear relationship to phenomenon designated cytotropism (Rous) Disturbances of wound healing include those of general and those f a local nature. In the forme the constitution f the subject and severa general discuses play an important part also the condition of the endocrane glands. The causes which my contribut toward retardation or prevention f wound bealing as therefore extent ridinarily manifold.

ASEPTIC AND ANTISEPTIC SURGERY

Rowell, H. G. The Surgical Importance of Indine Idiosyncrasy and Possoning. Surg. G. et & Odd. 915 xxvi. 9

As soding a disinfectant for akin and open would commonly used by the fairly and the medical profession, the tube calls attention it the fact that in rare instances a patient may exhibit an idiox, crasy to the drug it use being followed by conditions ranning from local leaso to death.

in the instances a patient may exhibit an idion; cray t the drug is use being followed by conditions ranging from local leads to death the conditions ranging from local leads to death the conditions of the cond

A case reported by Ronell was that of man 55 years of age who was admitted to the Manaschnetts General Hospital for guitne study and with its distincted Hospital for guitne study and with its distincted Hospital for guitne study and which was a study of the study and alargement of the protest. His history seemed favorable except for on attack of good properties, that yet the study was followed by given I make a distinct of the study with the study and the study with the study with

inguinal hernia was also done. The putient as given I or of eiber and wide preparation with half strength tincture of fodine After the hermotomy a large raised hamatoms was noted in the abdominal

ound This was opened after a new table teslet and another local application of iodine A few days later the patient was placed on the improvement let but the sext day he became irrational and was again placed on the danger hat. Around both the bernus wound and the rectus wound there appeared templish color bach gradually spread Death occur red ten days after the operation. Most of the abdomen was purplish, and purplish blebs des loped on

the lower lembs The prognosis depends chiefly on the severity of the symptoms, but as all are serious, the mortality

being cay high There is no specific treatment. Starch, the lasalcal antidote for lodine may be given in solution in the stomach. In the average case the usual methods of increased cimination are loncal, and in the pur punc type t least transferson is indicated, often

more than once On the b vis of bis in estigation the athordrans

the following conclusions There is very definite foding allergy closely related t al not the same as, sodine possoning tod lodem and sicalical with the topic effects preduced by the ledides, to hich lodge a converted on ab sorption

In cases of allergy the symptoms closely resemble those of possening, the barf difference being the amount of sodine producing there

3 While undoubtedly the condition is rare the precautions indicated in a curefully taken history and a reasonable fort t prevent absorption by restricting the locking to imited area and removing it soon by means of alcohol. The palating of post operato would with jodine ha unfortunite pos-sibilities. In doubtful or surpicious cases some other desafectant should be used.

4 I postoperat e cases showing uggests yraptoms, a test should be made for the drug and il it is found, appropriate treatment abound be given depending on the severity and type of the

ymptom 5 The frequent use of sodine by the lalty for the early sterilization of open wounds is associated with possible danger. In the surgery of compound fractures the full strength sol turn should be used | lth discrimination. A careful inquery with regard t ording I tal accu previous reactions will and in

dents 6 In cases with murked school acress even paint ing the skin ath small amount of jodge may cause

Translusion, hen used, should be repeated 4) MIN OUR

bears or the patient is loring ground

& Before todane is used in the case of who has been treated with lodides for syphile or some ther condition, his previous reaction to the drug bould be determined

 I goet of the efficiency of certain fedure salts as infections for prological X-ray examinations, we most recognize theoretical danger their me o In industrial plant where sodine or its fames

are present, a orkmen sometimes above symptoms of acut or chrome possoning Therefore treatment of their inheries with lodine must be potentially danger

1 Todase need not be ducarded as disinfectant but its removal by alcohol immediately after its anologation is describle G open I. Berner V.D.

ANASTHESIA

Wiemann O Clinical Investigations on the Behavier of the Blood Pressure and the Pales During nd Af er Neveculne-Adrenalin Anmetherla (hisabehe l'atermelanegen weber dat Verbaken on Butdrauk | Pab warbrood and

h Norucaine September Assesthenemed) Desix ke Zin be f (ku du n The purpose of the thor in estigations was t

determine the beh sor I the blood pressure and the pulse n an and turbed operatio performed under local mentheur boyocame adrenali solution as used partly for local intiltration and partly for conduction anarathesis. The pulse ad blood pressure (n) tobe pressure determined the the Riva Rocci pparatus) were recorded. few minutes previous to the induction of the meethers and the determina tions ere repeated thereafter t terval of t minutes Only those uses recluded in the stud in which no igns of general novocuseadrenatin lat recation ere observed during the induction of anysthesia or the operation, par ticularly ymptom on the part of the nervous avatem. The influence of ps. his factors was multimused as much as possible to the diministration of

more burn 1 aumber of cases ther no m rked changes In the palse or the blood presure, ther during the fadoction of the anxiathesia or during the operation

flectuation in the blood pressur of to mm Hg and a change of t ent be to per mus t in the pulse were considered insignificant. I other cause the aperthetic caused considerable parrane blood pressure ad, so some oppoderable educ tion I those in which as increase occurred the persoure rose t 78 mm bet een t minutes after the beginning of the nanthesia. As a rule the rise was noticed first in from four t sit minutes occasionally fall preceded the rise I gractal, time in the blood pressure of t as pro duced at all by the anisibesia second t accur

within the first ten minutes The cause of the rise in the blood pressure should

be sought in the adrenalin content of the fi al m jected. The pressure usually declined gain on rapedly the decrease occurring as rule from t four min tes after the highest abse. as reached in only few cases did the high alon persist for

t el to fiftera minutes I notated cases the blood

pressure rose steplike in response to repeated injections of the novocaine-adrenalin solution. In others, further injections caused no renewed increase and m some, when the fail in the curve had already begen, it was not interrupted by other injections. On the whole, the blood presence sank after the mital rae only to the original value and in the subsequent course of the operation showed only mornecmental factuations. In some cases, how ever the curve was such that after the initial rise there was decrease below the original value in many instances considerably below the original alse From the practical standnoint the operation armes as to whether this fall in the blood pressure which frequently occurs before the operation is begun and reaches to maximum during the opera tion, denotes dangerous condition. In the author Oppose t does not as it is not sufficient to cause collapse Collapse may occur however if t the time

of the deep fall in the blood pressure operative effects become active, especially hemorrhage Eight cases f splanchus anesthesis indiced by

the kappes method showed no differences from cases of angesthesis of another type STARL (Z)

SURGICAL INSTRUMENTS AND APPARATUS

Rectenwald, J J A Thoracle Abdominal G to.
Y Field J & Med Rec. 9 3, cxviii,

This is an instrument to maintain a permanent opening into the plears. Into ground, there colon occurs owners, bit does or items. It obviates the necessity for repeated incusions. It is so constructed in the constructed into a very small opening to the term be introduced into a very small opening to the constructed when the constructed the interest of the interest

SURGERY OF THE HEAD AND NECK

HEAD

Bland, M. E. Fracture of the Skull and Its Com pications in J Surg 9 3, TEXAN 33

Doring the last decade there has e been unusual opportunities for the tody of head injuries because of the recent World War and the constantly increasing number of traffic accelerate. While the warmjuries were for the most part of decidedly different nature from those seen in ci il practice the same principles of treatment are applicable to both trees.

The author divides cranial and intracranial in jones into three classes. () fractures of the skull inhort brain complications. () fractures of the skull inh brain complications and (3) brain injuries.

thout fracture of the skull

The first class represents the sunglest form of studiosympul no soft occurs the root as & V-sy exmination and the greatest importance \(\) \(\) interference brings to be set renth. Unless there is diager of couplies toos, the treatment should never be surpord. To should be set to surpord to see the set of the set of

The X ray constitutes those consume presence or bears of depressions involving the timer table or of detacled paces of bone with the bears of detacled paces of bone at this the bears of the paces of bone at the time the special paces of bone at the patient condition will permit the operation. In the patient condition will permit the operation. In the patient condition will permit the operation in the patient conditions amount of communited bone having large day amount of communited bone having large day amount of communited bone having large day and the skill. These defects should be closed with the skill. These defects should be closed with the skill. These defects should be the skill the skill the packets of the bone possible from the bran reblasting it removes bone specifies from the bran reblasting.

The second classification, that of fracture ! the skull with brain complications, and the third classification, that of brain injury a thout skull fracture, differ only in so! as injury! the bony tructures is concerned and therefore may be considered together. The treatment for such cases has been presonally described.

Immediate injuries t the brain or its blood seasoh are dos to liceration, ordens, and hemor riage and remote injuries t glooss, sear or corst formation, etc. Modern technique has not arrived t tage of perfection permitting brain storing. The second and that causes of immediate or the second season of the considered together as both are apt t produce cut certified compression.

Some ery illuminating experime to demonstrating the effects of cerebral compression have been performed by Kocher Hill, Cushing and others in man these experimental phenomena are at times very occurately reproduced by cerebral hismorrhage or cedama.

Numerous factors enter into the recognition of cerebral compression but history of injury followed by protracted unconsciousness and increased pulse pressure and the presence of one other symptom as sufficient to establish the disgnorm.

The deal method of remedying intracranial hemorrhage would be to liquite the bleeding vessel and evacuate the clot, but this cannot be done as t is till impossible i localize subdural hemorrhages accurately. Therefore the treatment must be symptomatic and expectant.

A procedure inspectify mentioned in the literature is lumbar punctur. The author states that in cases of this kind lumbar punctur is dangerous under taking and as the cerebrosphani fluid quickly reforms to therapeute value is at least very doubtful.

Oxonor E Britist M D

Graves, 6 Fracture of the Shall Rose with Super Scial Humostrhage on the Opposit Sale Report of an interesting the open Kentally M.J. o. 1

The themped theky market injuries

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ayad, W. Y., and Harver & C. The Refeneration of the Meninges. See . erg. . j. is et

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He thorne C.O. Cerebral nd Cerebellar Herner th tre in Apparently Healthy Melecces and Children.

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Modulet M. W. The Parest obly and Pachold leaf Anaton of Brain Cyalertus. Z. Put deposits over to a decide

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Lundberg, S. Incressed Carebral Pressure with Fat Imbolism (Gestegerter Hundrack bet Fett embole) 4sts kurs g Sound 9 by 27

Fit embelsm is the most common form of emberem because it occurs frequently in fracture of survo continues bones and occasio. It also in anymes of the soft parts. Only the cerebral form produces the more serious sympt mat leading wally to death. A case is reported in which cotanty to previous observations in Led increase in the pressure of the cerebrosparal fluid resulted.

The nation's as farmer 35 years old who was moved by the trunk. I tree, falling on his right leg Afes bours after the Jury, there was 17-6 in the temperature 1 36 degrees C in spate of the 1 of that the fracture was uncomplicated. Head che said sleepnoses soon developed. The temperature rose till higher and the sleephoess increased to complete coma Repeated lumbar puncturers recalled a pressure of 400 200, and 500 mm of the Neithern Indian punctures not a ensection caused and un provenent. The patient died four days after the larger At autoryse yer summorts if tembols of the patient should be sufficiently and the summer and the summer of the summer of

This was a typical case of cerebral f t embolism ending fatally fourteen days fire the injury. The increase in the pressure of the cerebrospinal fluid to 400 mm of ter is of particula interest as up to the present time increase has been considered high indicating the beance of f t embolism. I

sep radicating the beance of t embolism. I doubt from certain lat embolism the brain how hypersons orders and harmorrhages. The requirements for similar for numerous in olume in the cranial ca. it are therefore present. Lumbar principles in a mortain theraprotice measure. The injury to the true produced by the pressure is slight in comparate to the primary injury, prod ced by the fat embolism. The assumption is perhip is justified that diet the lowering of the intrariant pressure it to come came for the blood to carry the fat drops bying in the brain into the general circulation.

SCHUMART (Z)

Fay T and Grant, F C. Ventriculoscopy and Intraventricular Photography in Internal Hy dracaphalas. J 4m H drs 93 lvcs, 46

The authors eport the case of boy 1 not the dy who was brought to the borptail be his mother the the request the 1 something be done 1 check a progressing rowsh f his bed The child both had been difficult labor has no continued a three day before delier was effected by mean of forces. The mother first noted that the child here days before the less than normal four months later for the last as months 1 that dhere gradually increasing a new On the child dismission the hospital his lead measured 64 cm in circumference and 4 cm from the glabella t the uson The for bead as meany and the face small. The general physical conditions as a credient

In the particular case the main object of treat ment as at o establish an outlet through the corpus callosum for the relief of the acute unternal hydrocaphain. An proposch through the dilated entricle with an operation vs. postocope was nuggested. The operation was performed under light anexthesia Clear fluid under considerable pressure escaped. The can ulawast then reme ed and No 1st cytoscope was inserted to obtain view of the ventricular will be the wound was closed after a unificient amount of fluid had exapted to relieve the pressure after high resection the child a condition returned that supplies that is continuous returned.

t normal in fee day.

The cells alter a second exploration was per frenct this time on the left side, the positror born of the entirities being entered from the paneto occipital lobe. Only a small amount of cerebropani fluid except damng this operation, evidently because the pressure had been relieved previously one seek later thard operation was itempted, but in crount of the fact that the instrument which was to be used for cutting through the corpus callouism was defect in the sance completed. Following the confidence of the confidence of a vocable opportunity is being waited by the a thorn for the completion of the final stage of the third opera.

F m the results brained thus far th following conclusions are drawn

I tra entricular photography and entriculoscopy ar possible in the presence of dilated entricles

Little or no reactio follows such a procedure when t is properly conducted

3 The diagnostic value of direct inspection of the ventricula cavities may prove of considerable importance in determining the locatio and the extent f borrical lessons causing deform ties f the ventricles

4 A satisfactory perouch with regard to the area and the extent of the pening desired (callosal puncture inder direct observation may be made through inhated wentricle.

5 The photographic reprod ction of structures or lessons with the ventricles requires exposure f tleast forty seconds. General L. Berley, M.D.

Davis, L. E. Lesions of the Paratrigeminal Area.

J. Am. V. Am. 9 3 hxxx, 350

Attention is called 1 cases characterized by pain in the distribution of the fregenizal new wholly unlike the pain 1 tree major trigem ail neuralize. These must be counted, differe tisted because section of the sensor; root will not up. relief. They differe tisted from sphenopalatine neuralize described by Sluder and may be differentiated by placing consume on the main function membrane over hing the sphenopalatine gauginon or directly 1 jecting this streeture.

The thor reports two new cases and one from the literatur in which pain in the distribution of the Graves, S. Fracture of the Skull Base with Super Scial Hamourings on the Opposite Skie Report of an Interesting Autopsy Kewischy M J 913, 32, 534

The author reports the findings of the utopsy performed on a man po years of age to determine whether the cause of death was fracture or poplexy. There was history of chronic nephritis and two attacks of pordery

Almear fracture t the base of the skull as found on the right side extending from the inner end of the sigmoid simus t the occupital protuberance. These was no hiemorrhage near this fracture but superferryl basal hemorrhage was discovered on the left

side under the frontal and temporal lobes.
There was very little artemoscleroms and the blood vessels of the brain were not as degenerated as would be expected in man of this ago. The kidneys were easies and fibrous, and the heart was hypertrophied.

and dilated

and matter. The author concluded that the death was due t aball fracture that the harmorrhage on the opposite side was due t force sentiressly and that the insurance company was lable for death from accident Manual H. Hosser M.D.

Sayad, W. Y. and Harvey S. C. The Regeneration of the Meninges. Ass S of 9 3, invu,

The the persioneum, the dura will take care of its own defects and eventually close them over. The question of the formation of discussos following natural repair of the dura has brought forth divergent opanions. The authors have therefore subjected the bealing of the dura to experimental a vertigation. They curried out their experimental or an experiment of the contract of the c

dogs. Through the plane appearing it the part at home section of the plane are moved, or we heary take not exceed the subjects are changed and par. The durated home detects were allowed it fillium as this old over any time of the plane. The durated has a sum of the desired and the sound closed. Inyers above a After certain time interval the animals were secreted to beam as fixed as rule the three surrounding the sound were removed to the plane. The presence of the structures were carefully conduct. The presence of the structures were carefully conduct. The presence of the price and plane are given and literative thy first many and photo-

interographs
From these experiments the a thors conclude that
responsition of the dura occurs by organization of

Hood clot

Numerous phagocytes, polyblastic cells and fibro blasts merch be dot from the overlying terms of the cells of the cells of the cells peaked with the situated adherent. There cells peaked through the arrahond members of the peaked by become arranged in plane tangential that surface and after well there pears insitiat members resembling the endowhelal brings of the normal dars. Further change is marked by the growth and condensation of connective tissue behind the lining cells.

The cells invading the blood clot always come from the temporal muscle and adhesions do not form if the arachnoid has not been rajured

The authors conclude that defects made in the dura of the dog operatively without injury to the adjacent arachnoid lead i from one to two weeks and without the formation of adherious

V G Business, M D

Hawtherne, C. O. Ctrebral and Curebellar Harner risages in Apparently Healthy Adolescents and Children. Fractioner 9 03, 415

The author reports the cases of two boys who ded suddesty from cerebral and cerebellar harmorthags respectively. The symptoms were similar to those of the apoplexy of dults. Smalar cases in the literature are cited, but are relatively few as the condition in are:

The etology is very vague no one came being determined for all cases. Many theories have been advanced.

The conclusions drawn are as follows

Children and young dults cannot be altogether excinded from the chance of intracranal hemorrhage

The hemocrhage may occur at time when the

subject prears to be in good health

3 The hiemorrhage may cause immediate comand early death, or may be followed by symptoms
suggesting meaninglists which pecsat for several days

or weeks

4. Apparently slight violence may be responsible for popiectiform symptoms and the latter may be delayed for several days. Mascon H. Hosam, M.D.

Mogilnitzki, W. The Paraeltology and Pathological Anatomy of Brain Cysticarcie (Zar Pinstological and pathological Anatomic de Geleric Statement). If reflected pp. 191, 237.

In looking over topsy material of the Transatological Institute the author found the following lathert underscribed case in which fully developed terms was discovered in cystocross cyst of the brain. On one f the cysts was very unswell stricture: t 4 mm long and x t mm wide which had

broad hase and narrow per From centricavity there radacted from seven to ten intended terminating in small bland sacks. At about the middle was arnall urregular nedule. The tawn was made up fround and stellat cells Carrie

cummatuo revealed (ally developed terms. It is to be concluded that in this case the scenario the role of the host. If the homas organization there are substances which discover the segar carriery of the centereres and allow the terms to develop at it is possible that in aircuit thymscolymaters the segar that the segar the segar that the segar that

mt tapeworm Lorenz (2)

elst hours (pulse 180-200) Twenty four hours after the operation the patient was in a semi stopor ith temperature of 102 4 degrees F tachycardia, extreme restlement, evidence of marked weakness. and shallow rapid breathing. The blood engar was found t be out gm per 100 c cm (normal out to gran per too c cm)

Glucose was given very slowly i travenous! (40 gm in 20 per cent solution). An immedit im provement in the patient's conditio was evidenced by her response to questions. Six hours late her condition again became desperate. Stupor devel oped her color became ashen pale her espirations very irregular. There was a constant mucous rattle in the throat. The p ise was 180

A second injection into the ein of s gm glucose in 30 per cent solution was gi en Agui there was an immediate response by an improvment in color and regular responstion, but a th out return to complete consciousness as before This improvement was not well sustained during the next nx hours, but from this point on there as gradual betterment eventuating in complet recovery Ten bours after the second dministration of glucose the blood ugar was o arm per co

cm With the exception of the openmen taken the morning after the operation, the urise during the two days was negative for cetone bodies. It seems evident that in these cases are dealing nh a hyporh cemus rather than an acidoms and

that the latter condition is probably noident to the

Other observations has e been made which eveal a marked reduction in blood sugar appearing twenty four to twenty ax hours after operation and corresponding to the postoperative period when

the greatest reaction occurs The rationale of the administration of glucose solution intravenously is uggested by these few sindes, controlled and dependent upon successive blood sugar determinations. The thor emphasizes the importanc of high carbohydrat and high calone diet in the pre-operative treatment of exophthalmic gotter and the administratio of 5 per cent glucose solution per rectum in the postoperative CETE

Floercken, II The Method and Technique f Operation for Goiter (Ueber Methodik and Technak der kropfoperation) Beitr His Chir

ARTEL L SIDEFFLIE, M D

carva år

Up t January 92 Ploercken operated on 263 cases I gotter coming from Westphalia and Frank fort These included thirty ne cases of Basedon deese and five cases of mahamant strains. The

rest were diffuse and nodular gosters. Hypertonia th polycythemus as found

A inlateral resection with ligation of all of the four vessels was done in ninety cases. In maty cases nly three vessels were ligated. In the remainder bemistrumectomy with r ithout removal of the athmus or combined a th enucleatio or partial resection of the other side was dine. In one severe case of Basedon a disease only three casels were ligated

Gosterous patients a th ca dusc disturbances reprepared by bed rest digitalis a d 5 gm of quinin hydrobromide twice daily The operation is always done under local angesthess induced with 5 per cent no ocame adrenalm sol tion preceded on hour before by pa topon and ecopolamine or mor phase and tropin The colla incision of Kocher is used. In cases of large gosters and those previously treated by sodine rubbing or \ ray irrad ation the moscles of the neck are divided as much as necessary The supersor arters heated not t the main tem but in its branches, in order to spare the superior laryngeal artery a casel important for anastomous The inferior branch is brated th catgut where it crosses the carotid artery \ portion of the thyroid sland as large as thumb is left behind with the nesterno capsule which is sutured from above downward A drau as left in for two days. The formation of bemat ma and serum occurs in 1 per cent of the cases

The uthor total mortality was 9 per cent Sight postoperative tetany occurred once. It is not vet know whether bilateral resection with hightion of three vessels is sufficient. In Basedow's disease, belateral resection with hightion of all four vessels th operation of choice KLOSE (Z)

Dahmann, II An Unusual Case f Carcinoma of the Larynx Pedicied Carcinoma of the Laryn (Ean seltener Fall von Larynmarcison gestieltes Larymourcinom) Finch f Lary pal Rin al cic

A case of pedicled carcinoma f the larynx springing from the right aryepiglottic fold is reported Th tumo reached the same fa hazel ut without showing my tendency t degeneration The lars nz tself was practically uninvolved, even at the mie i the attachment of the tumor but there were metastases in the gla de on the right side f the neck and involvement of the ingular year and the carotid artery

The tumor was exturpated with the aid of suspenand larvagoscopy the glands were emoved ad the jugular vein was partially resected. Because of the patient age (58 years) the carotid artery was spared Irradiation was given after the oper

Up t the present time only fiv similar cases ha been reported M KILLODE (Z)

Citle G W Carcinoms of the Jans, Tongue Cherk and tips General Principles Involved I Operations, nd Summary of the Result the und t the Cleveland Clinic - Gran 1 : ;

la or | 1 per uni f 4 cco automics far must of the lead rirect reserve fan f a fou 14 d tart organ The her bare to best the brik seem t present as leafuern ton of the neer in the region Car ere of the & if of the macon membrane of the beek it not ret struct and Cau fibelpert 1 are I the I pph the glad up or the 1 hile rance of the fine of the mental walls form m u wantleg's holdle um pile (mer of the tengue met 1 - regs its

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el ads and the lung. Microscopic xami I va demonst ted torenetic tel tionship I t ern the tumor and the narathered The manner ope fasts go redescribed a dial It is tologic fector. You generated printed of dispersed rules on The of the infert varieties follem and frem and ther eterns ye two lorm Son ace 7/

Benedict F G : The Basal Metabolism of Young Cats A will bil ilu

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Holman, E. F. Hypoglycamia in Exophibationic Control Afferding Report Res J in II) 1 11 7 1 1

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(artists was of does god thyroid function is here they have of comment like at by Obsers the part t bregt comis the demoished up throw I wood ware b penthr maken but he por teen or lean the period in medi el following aper ten f rophth

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th reviews in common on thoront revenue done I er sever resction set in unried tel iter the open tion a loontraced throughout the se t the fistals and cavity injected with som opaque find The mixture Expers found most satisfactory counts of so per cent beautith submitrate in cottonsed of to buch sper cent accuses added

Most of the so-called complications of chronic empyema are in reality complications which developed during the acute stage and were curred over into the chronic stage. The most common of these is animia. Among the other true complications the most important are emplocarditis, my occurditis,

and multiple arthritis

Treatment to improve the general health should be concident with attention directed to the local condition. Nourishing food, fresh air, and sunshine graduated breathing exercises, and encouragement of a general honeful tirtude computate the essen tuls. The local treatment depends upon the condition found upon the patient's admiration to the hospital Eggers uses the Carrel Dakin treatment in all cases, at the same time correcting the underlying conditions While he does not believe that Dakin a solution materially shortens the course of the dwesse in the scute form, he is of the openion that I has cer tain advantages. It keeps the a ound clean and does away with foul smelling pus, thereby preventing the absorption of septic material W th regard t derome empyema, on the other hand, Eggers be larves it has beneficial effect. He ad nes the regular routine recommended by Carrel After seven consecutive negative cultures, the treatment may be descontinued and the wound scaled. At the end of a

ext, it is usually found meanly closed. After this it requires only imple sterile drivings. During the period of irrigation special care must be taken to strange the drivings so as to keep the patient day and pre-cent skin writation. In few of the cases revised, muses, arthritis, and an unexplainable resultant of the temperature occurred but disappeared bent the irrigation was descontinued.

Of the o patents, I elve had a superficial fatula and were treated by complete extrasion of the tract and surrounding tissues. The there were treated by the Carrel Datam method as long as there was reason to believe it would lead the slame. In marty two cases which showed no tendency these, conditions interfering with bealing were found. The patents were therefore subjected to radical operation.

ers therefore subjected t radical operation.

Of the remaining 1 8, on healed in an erage of one bondred and action day, from the last operation and fourteen were transferred unhealed. In these un healed cases the chances for healing were good they needly required more time and were therefore not operated upon. McMicrost Hancourt, M.D.

Operated upon. McMicrost Hancourt, M.D.

Sediler J E A Study of the Cases of Cardinoms

Mamman Operated upon by Myself and the
End-Result Obtained in Them S rg Gyac

Wolst p.J., ETM., 13

The author reports upon series of seventy cases of curumona i the breast occurring over period of treaty years. All of the operations were of the indical type including resection of the anillary and

supraclavicular glands when indicated. Some hopeless cases were submitted to operation unnecessarily. This could be remedied if a thorough X ray examination of the mediastinum, lump etc. were made prior to operation to discover evidence of lung involvement.

Twenty three of the patients (3 85 per cent) are airs and free from recurrence, and 14 2 per cent dued from other causes without recurrence, making a total of 47 05 per cent in whom the disease did

The autho cites two cases which demonstrate the variability in cancer malignancy. One was that of a woman a years old who was subjected to

radical operation three weeks after she first notified lump in her breast but died of metastass six months later. In this case, simple removal would doubtless have secomplished as much as the radical resection. The second case was that of a woman of years of the whole of three wash, had growing pears of the whole of three wash, had growing most, great emecation, and ideration and break targ down of the tumor. This patient was completely

cured and died ten verns later of poeumona. The uthor is of the opmon that a good many tumors considered recurrences are in reality new gro this. In this connection he cites the case of a soman aged 60 years who had radical resection of the breast for medullary caramona. Say years later she was operated upon for malignant disease of the unitary bladder. She recovered but ultimately died of carenoona of the liver. The type of cell was different in each cancer.

Nme of the seventy patients whose cases are tensewed were under 40 years of age. Eight of

these died of recurrence

The prognous scems best to the adenocarcinoma
That of the medullary type is least favorable
William J. Prexitt M.D.

Morton C. A. Malignant Diseases of the Breast W th Special Raference to the Superclavicular Extension of the Operation. Bril M. J., 9, 3, 4,

This article is study of 3 cases of multipant disease of the breast in Morton' personal exprenence of these for the season of planothis cancer most of them of the scriptons by the office of the office scriptons of the office scriptons of the office scriptons of the office scriptons of accorns. In order 1 accretion the list process of accorns. In order 1 accretion the list part of accorns the product of the office of th

determine the late results in eighty.

His desure was to discover the percentage of cases in which there was local recurrence became only this form of recurrence could his been prevented by the form of recurrence could his been prevented by more extens operation. By local recurrence More to means ecurrence in the pertonal region, including not only the region originally occupied by the

becast but also the Infract I reals a giose it lateral aspect. Other heart I low the III and thought over the original the units the upon la sculi region and the kould buck of the check of the contide of the operation.

Of it lighty patient traced thirty seems (apper it) were free from recurrent the or roses; in fire the open to so the lawron it free from resource of it years after the open from fin h y and in his car it we say are four eight

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et at move or the transfer has the rape ther is no special guide to them the rape that undar ext mion of the operation in of ated Morton concludes that it benefit carried out a notion special was to the formation process. In small and the stalls body special may be one organizary growth a stall to be special may be one when there is However be report no later sed and cod spr. However be report no later sed shock socialed in the set of later and the thock socialed in the set of later and the

Criter L. Local Recurrence Fallowing Estimation of Carcinoma of the Bresst (Leber de Josaica k. 15, nach Estimation des 31 unascrison) Colymits 9 544

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Histor A: Recurrences of Carcinoma of the Breast Which Developed After Chickel Gove Lasting Five Years or Longer Following Treet ment with the Recution Ray (Manuscart number such ken et al. A. of plate well with his by the file Related 9 it 5:

(res The pathent on gredsty or Amp two fibe inchilers it doned (Atober 10 o The 2019, glas were urraited) December 6 a l sool be in the peraticus realized it hypol l juster 02 order ned be app red it has il token zingle it was borned that it is they acknown a lit

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Lace? The patient oman 43 years all treps than of he left treat. Jet 0.5, a followed he proxy hast readiation to December 14 recurrence des hey in the hort day per red promptly on resulten treatment of the pre-proxy of the head of the pre-proxy has been head glands, the right tills het operation has been ref sed. The patient general condition in prox!

Cai. The pairs woman 37) are all treps the of the left fee at lone in J marring 10.3 I John to there sight melling of the represents in fath on the feel sight melling of the represents in the same the series y or the fin light has remained the same. The general condition is good in the same to be general condition is good.

Case 4 The patient was onta 4 reins old imput tons of the left birt of as those in April 10 I My 0 is translation given I November 0 nothing the six of the patient of the six of the left birth of the six of the left birth of the

Assember 9 possible the size of per picture is the sea. Thus a removed not the are irraileted since December 9 small supractive united the sea possible plants have been noted. Room securit(2)

Jackson, G. Brunchoscopic Clinic Lung Supports tion Caused by the Prolonged Sojourn of Foreign Body. Mol Chr. V. Am., 923, vi., 990

Foreign nody Med Chr. V. A. 923 VI, 990

Jackson reports four cases of foreign body in
the bronchi to emphasize the f Bowing points

Foreign bodies in the bronchus cause lung supparation aimulating lung abacesa, bronchiectana, tuberculous, empy ema bronchopneumonia chronic bronchuse.

The togm as well as the sympt ms clear up with supraing rapadity after the removal f the foreign body. Almost invariably the foreign body is found at the entrance to the area of lung suppuration

Hence its removal improves drainage.

I the cases reported in this article, as in hundreds of others, the foreign bodies were removed with ease and alterity by means of the brouchoscope.

The length of time the foreign body had remained in the bronchis in Jackson cases ranged from few risk to thirty mit years. In most cases is presented and not been suspected. When a foreign body is indicontagation, it tention may be called to it by make the property of the property of

of the heart or of lung suppuration.
When previously healthy child has sudden track of cholung and coughing followed later by broughtin and authmated whereing an aspirated foreign body should be sought.

RAIME B BETTALL M.D.

History G. Pyopnoum thorax (Zar Lehre om Pyoporumothorax) Freakf et Zizike f. Path. 9 Exym. 50 On the operation of the fourteenth meeting of the

On the occasion of the fourteenth meeting of the German Pathological Society the author exhibited series of frozen sections of the thorax preserved by the Kamering method and pointed out their ag anscance Such sections are particularly valuable to demonstrate the conditions f pneumothor This article contains an illustration f section made in case of exidative pneumothorax of the most extrem grade occurring in 3 years old who had a family history f tuber culous and died of tuberculous. The diagnosis of exidetive pneumothorax was verified by the distinct planing none noted when the upper part of the body as thaken Autorsy showed atenuve mtestmal and mesenteric tuberculous. The cross action of the frozen thorax revealed dvanced polynomary tuberculous with the formation cavities and runture int the right pleural cavity m which an exudative pneumothers a had developed The erudate, amounting t bout 35 hters bad poshed the disphraum downs and and caused marked deplacement of the mechanimal organs t the left The diaphrium formed an almost traight line rus g obliquely upward from the right add t the left The deplacement of the mediastical organs was so prest that in the region f the heart th went bral column could be grasped from the right pleural cavity. Other interesting features were an indentatio of the wall of the right number and kinking of the ascending year, cava.

The preamers show clearly how the so called temporate or chosing if the beart may be produced, not only by educate un the percentium, but also two educate in the night pleural space. It demonstrates further: the single glance the results of the sensors uncertonal disturbancers caused by the antomical and topographical changes of the thorace organs, vis. (1) time difficulty in the gaseous exchange in the lungs, and (1) times difficulty in an elementarily arrest of the credulation due to compression of the right annucle and kinking of the executing cancers.

Grass (2)

Gostes O. Th. Radical Phrenicotomy as an independent Therapsutts Meanner in Unitateral Pulmonary Phthans (De radicis Phranoctome als selbatendiget therapoutscher Lingriff bemaentager Lungenphthee). Kins Weissecke 9 s., 1406 544

The thor reports on the severe cases f pulmonary tubercolous treated by unilateral phermoot my t th Frankinst clause. He emphasuses the harmlessness of th procedure. The dusphasum is parsh; sed in such a v that t tal trophy of the model fillow. As result of this parsh; we the disphasum rises more and more into the position of expiration. At the sam time the thoracies carried in the same time the thoracies carried in dimmashed in to vertical direction as emilt of the shrinkage of the dispessed hims.

Goetze brained surprisingly good results in his own cases. He takes that the phrenicotomy should be done with the induction of the pneumothorax.

June (Z)

Ottameyer K. The Mobilization of th. Entire Shoulder Girdle as an Aid to Thoracoplasty for Pulmonary Tuberculosis (De Mobiserung des ganns Schulterpurcies als Hilliantité bet der Thorakoplastik spin Lungentaberkuloss) Zes fraW f Cit 9 in 504

T mobilize the shoulder midle from the thorax to facilitate approach t the first rib the author makes Z-shaped skin incision from the sternal end of the classife to the vicinity of the insertion of the pectoralis majo muscle on the humerus, from there along the outer lower borde of this muscle almost up t the costal arch, and from there to the twelfth nb posteno l The pectoralus mayo and minor muscles are then divided close t their pites of nsertion the individual serrations of the anterior serratus muscle ar separated from the ribs, and the lateramus dorn muscle is increed on its lower lateral edge corresponding to the lower portion of the skin incision. The next step consists in blunt direction of the pectoral muscles forward and f the serratus and latesamus muscles t ward the back having been done the arm and shoulder girdle are draw upward and the subcla tan muscle separated

from the first rib is the tibe rib ria. Le con colently treeted. March ribreversatible answers of the perforaline for a direct ribre is a fully restored the accration of the serial ribre. I have been also been also the ribre of tickfow fastline natures, with late unnor directle aution in the ribre.

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PHARTNE AND DESORRAGIES

Mills, R. M. and kimbrough J. R. Fuether the scriptures in the Radium Trea ment of Lancer of the Cloophages with Review of Fuety Four Cases Sollrested. In J. Free price. 9 48.

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MISCPLIANEOUS

Saiderry F C. An Experimental Study of the Cause and Effects of Immobility f the Duaphregan. K lesk M J b Ved Rec. 9 3 CTTL 10

The author produced immobility of the dia paragm experimentally by three methods () by camers simple pleursy with effusion by means of an mutant () by causing pleursy with effusion by means of tubercle betally alone or with staphy lococut, and (t) by freezing the phrenic perve a th ethylchlorade

In the production of simple pleurary with eff non twenty rabbats were given an intrapleural injection of 5 cm of 30 per cent aqueous solutio of peptons. This produced rapid evudation of serum into the nigural cavity usually of such an amount as to came areat dyspinous and embarrasame t of th brart action and necessitating aspiration in from eighteen t twenty four hours. Fluorescopec exam. mation of these animals during the exudation recaled the effusion upon the affected ride. The daphragm was in a low position, motionless and fattaned, its normal convexity being entirely de stroved

Inversion of the animal with resultant gravit tion of find a ay from the disphragm caused the chaphragm t assume to convex f rm and re estab habed its motio Following two or three aspara. tions the exudation ceased, and from the tenth t the twentieth day examination showed no or little find though the displayin remained immobile and ra low position

At postmortem examinatio the chest was found retracted The lung was dherent throughout ts over half where dhessons were numerous and heavy The diaphragm was lower than normal, appearing as a straight line from the midline of the chest to the thoracic wall. Electrical timulation of the phrenic nerve caused contraction of the diapleasem On section, atrophy of the disphragen mus the as found. There was wasting of the fibers with collarge of the sheath and increased fibrous tissue The disphragm was therefore immobile because of (1) increased attrathoracic pressure and fluid, and (2) disease of the disphragmatic muscle itself and (1) the presence of dhesions

In the second series of experiments c.cm. f.dutilled a ter containing virulent tubercle bacilli were injected int the pleural cavity. From th eighth to the tenth day finoroscopic examinatio showed about haziness on the side mierted, but the disphragm was functioning. The harmess graduall increased. About the twenty fourth day effusion was observed. This accumulated slowly varied greatly in amount but in o case was more c cm and was usually bloody Following the appearance of the fluid the diaphragm was motionies in practically every case, but it gain functioned upon spiration of the fluid. In t cases there was immobility of the disphrasm in the absence of fluid. The postmortem findings were very similar to those in the first series, the adhesions being present about the lower half of the lung and the muscle fibers f the disphragm showing

definite degenerative changes In the third sense of experiments the phrenic nerve was exposed in the neck and thyl chloride was polied for period f minute and Immediately after the operation the motion of the duaphrum decreased and t the end of ten hours was entirely absent. In this condition the diaphrasm was in buth position of paralysis and showed a erester co emty than normal Readings f wa ter manometer after freezing of the phrenic perv howed an increased positive pressure in the chest cavity The immobility of the disphragm persisted for from five to seven weeks. Section of the diaphraum showed stroph f the muscle thers

In the uthor counton anmobility of the di phragm reproduced not by single factor but by the mechanical pressure I the ffuno the presence of dhenons and the disease of the disphragm trelf as shown by the histologic changes cting together

RALPE B BETTOKET M D

SURGERY OF THE ABDOMEN

ADDOMINAL WALL AND PERITONEUM

Wolf, G. The P thosenesis of Torsion f the Omentum (Beitrag zur Pathogenese der \etstor

As co cases of torsion of the omentum have bee reported a typical picture f this conditio has be come identified. Torsions of the omentum are divided into tomona with irreducible hernia, those that are amounted with an empty hermal sac and those such occur w thout hernia. The condition is theceated in some way with bernia in 90 per cent of the cases In cases of hermie which have been prese t for) cars and suddenly become arreducible show ng all the mgns of pentoneal mutation, the diagnosis

tersion of the omentum is made easil When th bernal sac is empty the diagnosis is difficult

ther reports the case of m n 46 years old who had had an ingumal herms for many years. On the day of his admission t the hospital the hernia

broke through Attempts t reductio for five hours the part I the physician were a thout specess There was no vauble perataless, but a large bernul men extended into the acrotum. At operation, which was done t once, the hermal contents were f und to be blumb red amentum which, twisted like an umbilical cord, passed ups ard into the abdominal cavity in band as thick as the little finer band was resected. During the after treatment pulmonary embolism developed, but otherwise recovers was unevential. The trp of the omegatum was twisted too degrees seven times.

Thirting of the omentum without any hornal asc is fare. According t. P. yr. the cases may be d vided I to the sample and the complicated. The latter re those in which the omentum is athernat to other abdominal vicers. A case belonging t. the

second group is reported as follow.

The patte it was a owns 12 years old who had had attacks of pas in the respon of the stomach for four years. During the last three months, three he had become more frequent. There was no essent to run years and the stomach of the summerous small stoner and without attherous more frequent of the owner of the stoner and without attherous part of the ownertom left hungar from the transtime colour ere found. The tag of oventium was recetted because of the x thang of the prefixed in the stoner of the stoner of the property of the prefixed in the stoner.

turned 270 degrees on pedade om broad I this case the torsion was entirely intra abdom and Although there was nonguinal herni on the right side the latter had absolutely no relationship t the omental tag. A lumpy thickened omental tag with a the pedicle is predisposed t such torsion It is of httle importance whether the lumps change originated within hermal si or owes to origin t inflammatory processes. Only the enous stasss caused by the torsion brings the duesse picture of the torsion to an acrete stage. I the second case reported in this article the trucks of pun are doe probably not to the torsion but to the truction exerted by the adherent ementum. There is there fore a climical hitept period fact which agrees it h the findings in animal experime its made by Pa and Litthiner I cases of hernia, the clumpy hange of the omestum in the sac is the prerequisit for the des looment of omental torsion. If hermal protruscon results from the abdons and pressure the omentum may pass through the myousal can't the result of two-line motions SCHOOL (Z)

Bacon, D. K. Essentisis in the Treatment of Peritonitis. V servet Vol. o. t. o.

In any consideration of peritorits the most important angle tem is the question of drawing. The various meetings from ambignous dividing alls separating the abdominal or 1/2 it everyal definit regions which from mitural publis for the extension of inflammation. The researches the extension of inflammation the measurement of the extension of inflammation and the extension of the extension of inflammation and the extension of the extension of the extension attempt 1 will off an infection to both inhely food or order 1/2 decrease personales. The estimation of cultivities is also plutture in a fine decimation of cultivities in plutture in a fine the extended, but remain if policiously used may be river affect the first 1 early four bours.

given after the mr at early four norms. Morphane is fired after as an intential explication, and for the relief of pain. Abdocumal applications, either hot or cold have as a nilgence effect and produce vascular dilatation. Custom dictates that the patient be placed in Fowler is position. A imports i part of the treatment of peritoriats in the delity administration of 4,000 cm or more of fluid.

This is best given through the skin. Water given by mouth may cause undee peristalus.

In registred cases of persionites fa hack fless in fready present the orthook is unit vorable even when operation is performed. Prequent apparation of the stomach may be of some also. Enterortomy, is the only operation possible. If W. Fixik, M.D.

Jungeblut C. W. The Bectwickful and the Inhibitory Power of Ether: A Contribution to the Study of the Ether Treatment of Peritacitis (Ceber due bacterade and Fotwallandheumends kink des their Eta Bes part Ingder teleborhanding der Perisastis). Learnil J Balteral 9 Extra 19.

T determine the slive of other treatment in perion in the their made betternological tests in the H found in the concentration of 1 is also all the contentration of 1 in the contentration of the con

However his the bacterordal flect of etherwas found t be slight, the tests on fluid and solid media howed a marked inhibitory effect. Therefore the thor considers the troduction of their into the bidominal ca. by I value in threatened or beginning peritonitis.

Jepson J II and Pfelfer D B Ochsor Treat ment in Peritonitis & Surg ass have, as

R ference is made in this article to the artist changes in titude of leaders in surgery to and the treatment of appreciation and pentionis by the Ockner method. This method seems the less generall accepted today them is not The authors, however his had for onable experience with the continuous of define pentionists.

certain cases of diffuse peritoritis Statustica show general lowering of the mortably of acut appendicum in the past few years. In America t is generally agreed that intervention is indicat d in the early hours of an acute attack, but in some Puropean countries, notably in France sur geoms are divided this subject into the interventennets the abstrationate and the opportunists The interventional fa ors immediat operation regardless of the stage of the disease or the general or local condition. The bateationat will not operate in the acut stage unless after period of observation, t is evident that the condition has failed to improve or has become worse. The opportunist believes in immediate operation if the track has lested no more than thurty ax or fort eight heurs; but after that prefers t at for improvement before raking operation

A study of the attitude of surgeous in general toward and and established perstonith underster that they may be classified int three groups first, these all ocating a validing pickly in all cases of pertocal infection after the first two days second, these favoring operation when the symptoms, local and general, are undavorable or grave and third, a large group who advise signant delay under any circurstances carrely those in which life is greatly

radiagered While adhering t the general principles of the Others treatment, the authors emphasize that it as certain limitations. First, it is difficult, and sometimes unsafe in young children because of early actions from the starvation and sepans, the lower vital repetance of the peritoneum at this age and the steater danger in children of metastatic infections in remote regions. Second, immediat. intertation a imported when there is doubt as to the ones of the perstanits, particularly when there as a possibility of the presence of perforative lemons of the gastro intestinal tract Third, immediate operation is necessary when formerly localized abscess ruptures, as second localization rarely takes place Three cases are cited to illustrat the septic

character of the type last mentioned. In cases of rupture of large appendix distended in cases of rupture of large appendix distended with pas or based perforation of a patulous appendix permitting leakage of feecal matter int. an unprotected persional cavity operation may be delayed by ond the forty-engit hour time himst set for imme

data intervention, but assuredly no longer.
It a generally surred that the management of the decase is properly placed in the hands of the surpose and properly placed in the hands of the surpose are ell for the student mind, but the judgment of the individual surgeon, repend by experience, studen the ripid pipilicatio of these pranciples.

It is argued that easily appendicular pertonnias should be operated upon a thort delay trusting that the personness will take care of the affection already stretch. It is argued that in this same type of superior with the care of the affective and properties of the argued that in this same type of the argued that in this same type of the argued that the argued tha

The mortality is highest in cases—inch, when first sca, present symptoms of profound systemic termin, seally in the third day of the disease or the control of the control of the control of the case at the best method of low ering the mortality

Certain cases show no tendency toward localization and are lost by a waiting policy viz. () those of young children () cases of delayed and full meaning gaugirene or perforation, and (s) cases furn abdominal rupture of localizing or localized absents.

A trimmary of the opinions expressed in the literature of the part five years as an interesting review of the diversified view held on this subject by landing near V.E. Demsas, M.D.

GASTRO-INTESTINAL TRACT

Rudolf A. Experiences in the Surgical Treatment of Gestroptosis (Erfahrungen ueber die chirur guche Behandung der Gestroptose) Bei il Ch. 9 cvvn 3

The author recommends gastropery on the basis of his expension in stry-ax cases (6) for per cent cured so 7 per cent benefited, and 11 60 per cent not benefited. Of these, thruty three were operated on by the Rowsing technique (53 per cent cured, 12 per cent the benefited, also 60 per cent not benefited). In thirty three cases the ligament uniteres was utilissed coording to the Perthes-long in method as modified by the thor (7 5 per cent cured, 2 4 per cent benefited, and 7 per cent to tenefited).

In Rudolf modification the ligamentum tere is freed to the anterior wall of the stomach is the few interrupted satures 1 5 cm distant from the leaser curv. ture and con-red by a continuous row of sutures. The free end of the ligament is then drawn through small opening made in the scaled in cartilage, fits left costal arch. The unsertion of the ligamentum teres in the liter is freed in a smaller ligamentum teres in the liter is freed in a smaller saturate policed ery closest each ther are sufficient saturate policed ery closest each ther are sufficient la certain cases it particularly protocolobes of the hier resection of the lobes is undertaken. The best results ere obtained by gastropeys in acclosures.

Vov. Ranwitz (Z)

Moyniban, B. Some Problems of Gastric and

Duodenal Ulcer Brd M J 0 3

Mon mhan review his experience of the pest tenpers in the suppoil breatment of gastine and decodenal uter. He defines a chronic uter as visible and appable levo which has been prevent for months or years. The outstanding symptom is periodic and chronic epigastric pain. In a total 1°, 8° axes there were \$5 cases of duodenal uters (43) men, \$6 somen) and tis cases of gastric uters (53 men 8 women). Twenty three patients had both gastric and duodenal uters.

Since 9 Movinhan has operated upon more than goe consecutive cases of duodenta luciar without a death. In every case the ulcer has been seen and demonstrated. The moviably in cases of gastneuleer or gastne and duodenal ulcer treated by gastectomy was 6 per cent. Only six of the cases of duodenal ulcers treated urgeatly were complicated by permal ulcers.

The dispross of doodenal uter can usually be medium dispross narefully taken hatory. Suppose have proved the great prepooderance of doodenal over gastre uter. The dispross of gastre uter on the other hand, is more difficult. I there cases rom petent radiologist can be of great sid. The mothe and notch in gastre uters and the deformity of the bulb doodenal uter flord evidence of great vises from

diagnostic standpoint

The verage duration of symptoms was seven and

The verage duration of symptoms was seven and one-half years in cases of duodenal ulcer (excluding cases with perforation) and nine and one-half years in cases of gastric ulcer. Every patient had been treated mechally during one or more of the attacks. Medical treatment is of great value in reheving the pais and curtaining the tracks but has inviriably fauled to give permanent bealm of the ulcer.

and to give permanental control to the control of the particular o

In the Levis Infirmary during the years 9 to 30 addes severaly five perions a the gastne under dead from hemocrhage or perforation with personal test of the chrone type. During the same persod of time there were 30 cents in which death resulted from either hemor lags or the perforation of duodenial uner. The fall morthisty of surgery is howen. We are just begin morthisty of surgery is howen. We are just begin presenting repeated medical curve and dying ever cell years late from prace complexations of the series when the fall were late from prace complexations of the series when the series are the series of the

latest chroneculers

With regard to the incidence of cancer on an sker basis the author states that an verage of two thred of the patients with gastine cancer gave history very suggestive of procedent electric of supposed components at the edge of the leason. In one instance the russed, red, the clared edge of the uleration of corresponder extraintion a columnar car conoma on one side and an early serrihous cancer on the opposite margin According I McCarthy gas tree skers with diameter of one of more are practically always malignation. The best dools, the processing of the side of the control of the

Surpoil treatment of gastre uleer has passed through many stage. Gestro-enterostomy has given good results in many cases but for the surgery of today the results are not good enough. Moy in han has described the closu excesses of the slarer with the lamb because of the large number of recurrent natures belowing in closured the closured the stage of the large with the large translation to the closured the large translation to the closured the large translation to the closured to the large translation of the closured to the closured to the large translation of the closured to the present many forms of the large translation of the closured to the closured to the large translation of the closured to the closured to the large translation of th

good results. He uses the anterior no loop method. The jejunum is brought from the farure across the transverse colon from left to right and applied to the divided stomach so that the promisal part of the jejunum jous the greater environment.

Moyaihan has employed this method in every case since June 1920. There have been no deaths and only unevestful early and late convalences: A ukers have recurred. No dyspepsia symptoms have

followed this operation

This article is a critical and admirable resume of

mester surgeon work in the field of gastric surgery Iows W. Nurme, M.D.

Hardt, L. L., and Rivers, A. B. Turic Manifestations Following the Alkaline Treatment of Peptic Ulcar Arch [at 11st 0 t. xxx. 71

Spops attributes the chromotry of electr to be or rows excise of gastro juce, and on this base sominters small amounts of alkals bourly over a less period (three to four weeks in the bounts) asserved a sects afterward) Heavy, it may be helpful t know that in rare manageness it has required to equi alent of 90 pr. (gm.) each of calcium and bount and sodium beneficials every born makes between feedings and every half hour after the last freding until 9 pr. to control the free acchity.

We have exception, it has been the experience of the authors that when an attempt is made to cue tool the acoldy in certain group of cases group toms of toremas sensity appear. Thus far how ever so one has studed the chology and symptoms tology of the condition from the standpoint of blood chermater.

From the patients th peptic ulers who enbarred in the Mayo Chune from April 1921, to April 922, forty-eight were selected for study and team patients who are treated for study and team patients who are treated for one will for team patients who are treated for one will for team patients who are treated for one will for treated according to the usual Suppy method. This experiment was made to determine better or not the soils alone was factor a coming the complexiing symptoms. Group consisted of autient patients hower placed directly on Suppy treatments and

ho were placed directly on Suppy treatment and remained normal throughout the course. Group 3 committed of sixteen patients who showed tome symptoms while under the Suppy treatment.

In practically all cases a twelve hour species of union (might) was examined increoscopicily followly pray, and centra, and chemically for allowing and sugar. The specific gravity was estimated and the resul functions was tracted by the pronounced of the result function was tracted by the pronounced of the property of the plasma experienced for the property of the property of the plasma experienced for the property of the pro

more. In one case the blood chlorides were also determined during the period of toxernia

The chemistry of the blood or unne affected in the "milk control patients in Group 1 or Group 2 The exteen patients of Group 3 ex lebated definit symptoms of toxenna

Symptoms of interication are apt to arme at any time during the course of the treatment, a thin four or fix days after the now deep are given, not until the third or fourth week, or following the use of two or three additional x gr calcium carbonate powders Patients whose gusting acidity persistently remains

uncontrolled may above as motoms early

Before the patients developed the mor serious supposes they seemed unduly introspective persons. They wer arntable and complained bout trafes which previously they had everlooked The first monotom was distaste for milk In some intances headaches came on almost aimultaneously th the dalik for milk, and t this stage t was would difficult to persuade the patients t take the

posders. The headache persisted through the entire syndrome becoming more severe as the subse quent complaints arose With the mcreasing dishke for milk, nauses be

came pronounced and the patient vomited on making efforts to take food or w ter. The omiting may become alarming and is checked with difficulty weally only after repeated gastric lavage

Diraness r a common symptom even the milder cases Aching pain I the muscles and joints as usual symptom Respirations became alon the pube slightly accelerated, the face flushed and per puration profuse. The patient lay in bed himp spathetic, and ery drow and was roused th difficulty Whe the symptoms reached the point f names and omits g (with few exceptions) the alkalis were stopped and the patient was put on tohour feedings consisting of milk, cereals, eggs, fruit juces, and meat broth I six instances t was neces sar) to continue this treatment with small doses of alkah because toruc symptoms recurred after at tempts t follow the Suppy régime

During taxic manifest tions the blood area in creased from 50 to 206 mg for each 00 cm and the creatum from at 5 mg. In the normal patients the curbon doctade varied from 55 t 70 olumes per cent in those exhibiting t toc symptoms from 65 to 7 Albumin and casts were found t some time during the course of treatment in all f the autteen

cases of Group 3 I Groups and the blood

was normal The partric acidity was not controlled in any of the cests of Group 3 as rule it was high. The versige total andity during the period of toxermia was 78 and the free by drochloric acid 48

The toxic manifestations, laboratory data, and pathologic findings in three cases of Group 3 led t the supposition that alkaline treatment may precapitate definite toxic symptoms in patients with read ducase. In these three the blood area rose t no or busher

Undoubtedly a marked nathologic condition of the kidneys was being dealt with. In all three cases the gastric acidity remained permittently high. The aver age free hydrochloric acid was 63 and the verage total acids were The point is emphasized that alkahne therapy directed toward the complete neu tralization of gastric acidity is not only out of the

coestion but also harm! ! I the other thirteen cases of Group a there wa no chaseal or laboratory evidence of penhritis or no phrous a hen treatment was begun, but symptoms of arving degrees of toxernus associated with renal invol ement became manifest within few days to a fen neels later. It is hardly rustifiable to conclude that these patients had definite perhitis at the onset. A more probable assumption is that renal disease with torus mamfestations was the result of the alkaline therapy. It has not been definitely determined which one of the salts or metals is re sponsible for the toxismin. However, the diet is not the cause as none of the patients o the diet alone bowed torus a motoms. The fact that in these cases the acids were persistently high brings up the onestion of variatio in beorption perhaps depletio of blood hlorides. These patients and patients with eastric tetany had similar blood findings with the exception that in the latter there was depletion of chloryles in the blood

The problem as t whether or not true Baloria a produced by the large amounts of alkalis given is yet t be solved. The hydrogen son concentration was not determined in this tudy but on the basis of the high carbon dioxide combining power. I the plasma and the diministratio flarge quantities of alkalis, the authors feel justified in polying the term alka losas

Guy E F The Effect of Gestro-Entercetomy on Gastric Function as Interpreted by th Frac tional Test Meal Bru J Surg 9 3 2, 403

The a thor has modified the Rebfusa technique of btaining a fractional test meal by giving a pint f outmeal for the meal and then a thora ing a c cm every fifteen min tes T obtain larger quantity t is often necessary t employ pressure in th yringe buch may cause min t highorrhage of the gastric mucosa and thus introduce an element of error Sutteen specimens are removed. Guy emphasizes the importance of filtering the specimen immediately bel re-marked changes in acidity occur In the following comparison A represents the titration figures of specimen filtered immediately and B those of the control specimen filtered afte standing in the test tube for four t six hours t

| room temperature | | | Total |
|------------------|--------|---------------|--------------|
| Europie | A B | Free HCI 7 | Acadity 6 |
| Етажріе | A B | 5 | ş |

In thirty-one of more than fifty cases examined the presence of an ulcer was confirmed at operation. In fourteen diodenal ulcer was found, in nine a pylonic leer and in three gastric after. The exact position of the leer in five as not known.

In fourteen of t enty-six cases which were examined after gastro enterositomy the audity curves were blamed both before and after operation

were numed both before and after operation.

Gain's sice: The length of time during which tarch could be recovered indicated that in cases of gastice ident the motility was reduced. Bile was present over longer periods the in the normal

stomach. In cases of ulcers if the body of the tomach there was hyposecretion of acid. Dundenal ulcer in cases of duodenal ulcer the

motility was increased even though the fibrous surrounding the ulcer encroached upon the pylocoring. The presence of bile was less characteristic in this type. There was marked hyperscretion of ch, and the amount of resting junc. as con-

siderably increased

Polaries of college of polaries deep the mothly used definitely decreased as shown by the fact that starch granules could be recovered as long as three and three fourths boun after the metil. Absence to ble in the stomach seems the a marked feature of these cases. There was hypersecretion of sord, but these cases. There was hypersecretion of sord, but not so marked as an the cases of doodenal sleer.

In tady of the effects of gastro enterostomy on th different types I keer t as found that satufactory gastro-enterostom; alw ys increased the rate of emptyring I five tests carned out on pa teents subjected to partial gastrectomy a still more rapid evacuation as noted, the stomach being empty on an verage a thin three fourths of an hour I tw cases in which pain d vomiting racurred after gastro enterestomy the emptying time was found to be t hours or longer and in one of these the stoma had cressed to function. After gastro enterestomy for gastrac ulcer there was neually marked lowering of the scid secretion. while fier gastro enterostomy for duodenal ulcer the decrease in cidity as less marked. The other does not agree with Sherren that duodenal exclusion m the cause of postoperative hyperarchity as he has demonstrated that high acid level after operation is but the natural result of pre operative hyper secretion and is not flected by variations in operative procedure apart from the provision of an decruste toma DEVAN W Carte VI D

Goldschimidt W The So-Called Linitis Flastica (Zar Frigs der sog Linitis plastica) 4rck f Mi Chr 9 cxx 55

The clumest and pathologou-anatomical pecture of so-called limits plattics is by no mean clear although great deal has been written regarding the condition Man uthous emphasize the forms of the stomach (leather bottle form, shinning and thicknemy) paying fittle tention t to pathologou anatomical suspects. It is therefore not surpressing that nouncross other gastic diseases.

such as carcinoma, fibromatous, syphils, etc are often included in the diagnosis of hains plastics. This fact explains also the various opinions regard ing the malagnancy of the condition.

The whor reports to case: The second, particularly showed the plettine of horist plastics microscopically whereas an infiltrating curenous with colloid cancer cells was found on survivolve examination. I the discussion of the case Gold schmidt russes the questions whether this least should be described as limits, plastics which it resembled macroscopico mosphologically, or which er it should be designated samply as a coloid cancer according at the increasopies findings.

Painginy J. Rountismological Investigations on the Protonal Relation of the Momenth in the Various Types of Posteriae Racticode Contra-Entresottomy and Comparison of its vides in Ulcer of the Stamach and Deselvents (Routigendagate Uniteracharge des Indices ellen Verlations des Magiera les des verscholeres tirts der Gestroeiterovierus retrondes pasters tirts der Gestroeiterovierus retrondes pasters ternels und deodews) Destrois Links J. Chr. 1921. denne, 97

VOLUME UND T (Z)

Palugy v has investigated roentgenologically the functional behavior of the stomach following the different types of posterior retrocole gastro-extensiony on the material of the Hochenegy clinic. On the basis of skrty-one cases he comes to the following conclusions:

In the selection of the typs and position of the anatomosis the surpron must consider to the the tomach so do normal me or diluted, and better has book or cuttle-born shape. In the selection of the latter to occur times.

With the exception of those cases in high their is the circle to the cardia or middle portion is as more glass stomach, as which an autonomic applied the upper sac ought t produce favorable results the following points abould be taken into considers.

tam in the performance of gastro-enterostom. In the hook atomach on formal size the cheer bet een supperstating and anisoperstating sate tomes appelled at the cursil pole of the stomes should be governed only by the technical considerations. In case of chiated hook stomach because the consideration of the consideration of

should be ruded in every case. Although the loop may turn and will then give a good esult, the deficulties and functional disturbances up to the time of the turning of the loop are not morn askenable Furthermore, in some cases turning of the loop does not occur and, as a result, there is persuasent knoting.

Narratz (2)

Finaterer H Operati ns on the Stornach (Resections) in Advanced Age (Ueber Magenopera toom—Resektionen—in hoben Alter). Il see med Belande 93 http://dx.

On the basis of his own extensive experience. Finiterer opposes the opinion held by many that the mortality of operations the tomach in divasced age is so high that in general it is better not to undertak them.

Caracoma is the chief disease of the st mach in advanced age for which persiston is apt to be indicated. Operations are rarely performed for beings index A callous lesson which is called ulcer to operation as usually found on later microscope estimation to be cancerous, but there are exceptors at that rule. The author reports there cases of putents over 7, years of ge in which the chinical disposas as carenoona, bit the histologic examination of the times removed it operation revealed a beginning carenoona on the basis. I am off disker mesh one.

Cases of perforation f ulcer or carcinoma which are rapidly fatal without operation are rar in old as rimiterer succeeded in saving the life f

comm of 7 years of age by operatio performed filters hours after the perforatio f a duodenal there in spate of desperate condition. The pulse at farst very irregular, freque t, and source! per ceptible became clearly perceptible after an intra-most sol tom f dreash d common salt.

Insterr a mable I accept the view of manphysicana and internuts that the results of extenwes operations on the stomach and intestines are one and anneed are than in youth or count of the dasper of positioning and heart weakness the operations on the tom of performed by Finsterre during the last ten years he has had almost as food results in Derrocas as in ounger persons. Polisonary complications so much directed, erecutard lessessing.

60 cm of go who were subjected t resection technel (1 per cent) thed Th mortality of the 75 technel was only 7 per cent of the ta 1 tatal cases, three wer cases of ext new resections of the tomach and colon, and in fir resection of the

pancreas was also necessary. Therefore in all of these cases the proposes depended less on the age. If hip tainst thin on the extent. I the operation. I thry nine cases in which sample resection was done by F meters there were four deaths a mortality of a percent of of the deaths was that of as man with very serom mema due to bleeding for fifteen the sample of the

when the patient was up and bout In general, Financer found that M very ca chectic persons are often ble t w thatand well the most sever complications of operation. Of the patients over 60 years of age on whom gastro-enterosions, was performed three field following operation two from perit inits and one from persons to the several persons of the several persons of the several persons. One of the persons the several persons

of soft persons it on our persons.

Of soft precedures i the tomach for gratine and disocleral ulcer thirty four were performed on patients between 60 and 67 years of age and of 1 gratic enterostomers with the same indications tuch we reperformed on patients betwee 60 and 8 years [age I the lattert elve cases there was only one death that of a man aged 8 who was completely comatons twenty four hours before the contrate because of nature.

In the the experience, ca cinomatous degraeration is exceedingly are in disoderal leter bence gastro-enterostomy is often all that is necessary in case of gastric uker box-ever resects hould at a bedone without regard to get account of the danger of carcinomatous change. In life if the changer of carcinomatous change is life if the country of carcinomatous change is life if the country of carcinomatous change is life if the country of carcinomatous changes. In life if the country of carcinomatous changes is considered, so severe pulmonary disease etc. Deaths from perticults must be left out of the reckoning s hen judging of the duagers of the operation is advanced by because this danger is just as great in the cases of young persons. I historier experience all country of the country of th

F neterer tir botes has good results especially the besence of polimonary of cardiac complications it the a ordan if narrosss Of fifty-five cases i resection for ca comon forti-epith are performed to der local annexhestations Spilanchus nearthest recording it Braum in those is as a constitution of polimonary of the property of the p

emphysema which forbid the use of ther or chloro form as even the smallest quantities. Therefore neither the family physican nor the internat has ny good reason to advise against operation or represent it as particularly dangerous on count of advanced; see of the nation.

Boyd, G. L. The Etiology of Acute I testinal Intoxication in Infants. Arch Int. Med. 923, 2233 207

The thor's summary is as follows

cases of scute intestinal intoracation in hidren to tain tonic substance which, when injected into nimils produced definite syndrome consisting of depression and narrosis, anotesta, circulatory failor an increase in the number | intestinal executions and in some cases convulsions and death

Extracts of intestinal macous membrane from

Younger animals wer much more susceptible to this toruc substance than older animals

3 The toxin is not destroyed by beding and passes through bactern tight filter.
4 Creatals resembling those of the dipicrat of β-immo asolylethylamine were between by procorate means, from the extracts of intestinal.

marcous membrane
5 These crystals proved anocuous t animals
until their basic character was restored by prolonged
hording—th alcohol, when they became highly

6 Previous dehydration of an nimal residered t

more susceptible t the toxin
7 Boiled queous extracts of fresh tools proved
non toxic when injected into animals

8 Systemic blood from cases of cuts intestinal interaction as slightly toxic ben injected intnumals

9 Portal blood from patients was ery tome, o h distinctive pathologic findings were see in any of the f tal cases

WALTS II NAMED MID

Gerjach W. Mechanical I Jurias t the Mucosa Cansad by Assaridas in Intestinal Obstruction Due t Assarida (Usber mechanische Schleinbast sch edingungss durch Assariden bei Assaridentium) Bestiele Hinte f Chr. on christ 500

A gril, o years old, who was operated on for cutspreadcuts (as area of bepanning gangrae as large as pea) showed the agas of lens and perstonais four days after the operation. Laparationay revealed diffuse perstonais and married distention of the small intestime which was partly blunk red. A number of ascardis lay in the small intestine in mediately above the theorem of which we have tend were approximately of the person of the tends were married to the composite the curse of the cuts were approximately of the composite of the cuts of the composite of the cuts of the other cuts of the cuts of the cuts of the other cuts of the cuts of the cuts of the other cuts of the cuts of the cuts of the other cuts of the other cuts of the cuts of the cuts of the cuts of the other cuts of the other cuts of the cuts of the

Autopsy revealed numerous norms the small intestine. At the points where they were found the mocoss was bright t dark red In the upper part of the feythmun there were leasons of the mocoss extending into the robinicism from the reconstruction of longitudinal defects about a man wide in the in our layers. I the intentinal wall which rescaled the property of the control of the mocos of the mocoss and submocoss appeared surjectly experienced to the mocoss and submocoss appeared surjectly experienced from the mocoss was indicated by numerous cells, and the perspirate protons were neity experienced to the mocoss was indicated by the mocoss was indicated by the perspirate protons were neity of feets, the mucculars indicate the feet of feets the mucculars indicate the property description of the perspirate protons were perspirately described in the perspirate protons when perspirate protons were neity of feets the mucculars indicate the protons which were neity perspirately described in the perspirate protons were neity of feets.

showed ulcerative destruction.

Both the injury of the intestine and the speake ileus were caused by the ascanda. It could not be determined whether there was any relationship between the ascardinss and the appendixts.

General (Z)

Quain, L.P Pathogenic Prosis of the Right Colon
J.-Lexist 0 3 xixs, 73

Most of the symptoms induced by coloptous are due t the dragging on the mesentery or personal membranes and the constant facal stass. The symptoms are many and multisom, but may be assembled into three general groups pairs, costs patton and information.

The pain is of two types, that produced in the

mmerisate vicinity of the colon and that produced by the dragging on other organs

The success of treatment for ell marked color tons will be proportionate to the patient's age and ratelligence and his co-operation. The younger the

ratelligence and his co-operation. The younger the patient subjected t. colonization, the more certain and raised the cure

Medical treatment should be treed first Tail mecessatistic two or more weeks in held in a hospital Several times a day with intervals of rest, and in hour after each most, the patient in plated in Driendelsaburg position on an incluse of I beauty in the patient plated in Driendelsaburg position on an incluse of I beauty in such as a part of the patient of I beauty in the patient of the patient

On fewing the hospital the patient is instructed to be in the Trendelenburg position for at least twenty minutes after each meal and upon returns;

An abdominal support should be ora and should be placed in position while in the Trendelenburg position.

The medical regime generally gi es only tempo rary relief surgery being necessary for a more lasting

When the colonic wall has become infected and thickened and when pronounced lymphademia and malaple adhesions are present, no operation abort of nebt colections will save a cure

In the presence of excum modal of mild degree faxton of the caput chi to the root of the mesoappendin should always be done after ppendectors. It is Quana convection that this finition if the excum, uncidental, credental or international, has much more to do a to the relief of symptoms after operatum for so-called chrome appendictus. than removal of the appendictus.

Rhen the cream and the ascending often are both ploted and hypermobile on a meantern more radical fination to the peass muche is done by measure is made through the posterior pent mean opposite the normal location for the cream and the cream is fixed to the mustle with two or

three chrom c caterat sutures

When most of the sicreding colo is free and hypermokie a second persioned income is made hopermokie as econd persioned income is made somewhat higher, over the edge of the poor and to other chronic sutures are introduced. A very said fustion is obtained by placing the nutures in the posterior longitudinal line of the colon, but in in apt I cause considerable backanche in the first few rels after the operation and ma in other

rate of too firm firstness in some cases. When there is compiled right coloptons still higher fixation is made at a point representing the higher fixation is made at a point representing the higher fixation is made at a point representing the higher that the point of the point of the higher with the higher than the point of the higher than the higher than the higher fixation and the point of the point of the higher higher than the measure are passed through the area that the measure are the twelfth in his are than the measure are the twelfth in his retaint reached it this point. If there is an abundance of it is this seemed best not it pass these than the point of the higher than the point of the point of the higher than the seemed best not it pass these them.

When the right kidney is definitely prosed with the colon, the fatty capsule is split on the docrum and pecied loose from the kidney. The tift of fit thus fired externally but titached in front of the takeny pelvis in gathered together — this or three chromic catgot rutures and satured firmly the equalities lumihorum muscle. This forms a belief po-

hick the kidney rests and is much better procedure then themselves and is much better procedure then themselves and is selected to the selected themselves and the selected themselves are the selected to the selected themselves are the selecte

dura than attempts I anchor the ladoes used. The following bard immuney of the results following objects on Though I (6) per cent) I fail following objects on Though I (6) per cent) I the thry are particularly objects on the properties of objects four long objects on the properties of objects of the statem up hears, and I cent (7) per cent) of the statem up hears, and I cent (7) per cent) of the statem of the throughter colofisation are entirely a unprometter for the majority of the rest both one that of the state it maybe garden the state of the statement of t

results in patients who were reheved of symptoms in other organs—kidney gall bladder and duodenum—and upon whom the most radical and multiple interventions were performed

The author summarizes his conclusions as follows Coloptosis is a very common anatomical ab-

pormality

Comparatively few of those who are coloptotic

suffer stricus symptoms as a consequence but the
perdence of the condition is much arrester than was

formerly supposed
3 Some of the flects of coloptons are timbuted
to other abdominal organs which may in turn gi e
rue t 3 new set of a mptoms obscuring the original

d chief madition

4 Medical treatment affords relief in most cases and should be given thorough trial in all cases al though t ability to cure is doubtful in any case.

though I spanty to cure in domind in any cute
5 Surgical treatment is as successful in this condato as in many other so called surgical diseases,
and promises better results as experience accumulates.

6 Chrome appendicuta is an infrequent condition. The term should be restricted to those comparationally few cases in which there is actually a hronic lesso of the pipendix.

CARL R STYDERS MID

Witherbee, O.O. The Indications for and the Results of Anchoring the Head of the Colon Cal few State J. H. 0.3 NU. 60

The a thor has feen notoced that in certain cases of excruciating headache ther is an associated lowering and distention of the head of the color. If therefore endea ored to determine whether this deformit was responsible in part. I least, for the disconfert last scattor resulting from color retembers to the constant of the control of control

In teenty eight cases the a thor separated and hesom and cut all fibrous bands to liberat the colon so that I could be a thout restraint and in contact the he parental pertinenum in the right fat. I Deer be secured it with a running settered and the perintegent in the parental perintend hand I fold of the perinteerum? A distance of a roof of the kings of the perinteerum? A distance of a roof of the kings of the perinteerum and the manufacture of the their set when the perintendent is a roof technique to the perintendent of the perintendent of the perintendent of the perintendent peri

Finhorn, M. Chronic Ulcerative Coliti and It Treatment \ 1 ork M J & Med Rec. 9 1, ch 4

Strauss tiributes chronic ulcerative colitis to dysentery but Yeomans regards it as an infective conditio because of the febrile course the prostra-

In reviewing the ymptoms, Finhorn describes the characteristic stools, the constit tuonal reaction, the protracted chronicity and the resultant disability

The di gnoss is based upon a stool examination and the subjective symptoms caused by the local condition. If the symptoms are alypecal, the proc toscope and the barium enems, reach lumble asch.

With regard t the treatment, Finhorn outlines detected containing very little cellolose. He advises abstinence from cold beverages, fruits, and salads, and the use of only small quant ties of sulk. Care must be taken t provide a diet of sullicient. In this since

In the medical treatment of the disorder it is seportant to use a hole which all spread the remedy over long portions of the intestine. I inhorn ecom mends one t. the tesspoonful of an astringent in agar such as tannin agur. I persenunha agur is in deated. I the titack follows a merbic disenter and deated. I the

lupulin agyr if there a colicky pain

The local treatment consists of retention even irregation of the colon through the rectum and irregation through that precious an appendicustumy or excessiony opening. The thore odd, the operations mentioned by introducing an intestinal irregation table in the execution through the mouth. That it her left in place for it or three weeks during shich time gaintion in also given by mouth.

A case in hich this treatment is applied in reported. So day first the introduction of the table, the captule was demonstrated in the captule was demonstrated in the captule to the captule the captule that the captule the captule that captule that captule the captule that captule the captule that c

The procedure is recommended because of t effectiveness and because it renders unjuril oper tion unnecessary V F Dens. M D

LIVER, GALL-BLADDER, PARCREAS, AND SPLESS

Hans, W. The Bacterial Centent f the Blood of the Portal Vem nd the Origi of Liver Abaccesses (Leber & Bai era ngehalt des Piortadehintes al da. Interbang on Lebribocesses) Destrib Limbs (Abr. o. 1911).

Has first given buttorned review of the amous theories regarding the binetical content of the base of the portal o

mesons membrane of the gustro infusion treat is no wheel by inflammatory or destructive processe conditions are entirely different. Buttern can be taken up by the radicals of the portal can be all during any gustro or intestinal operation in which the all of the ween is drived throughout the title of the ween's a forded throughout the entire street. The organisms so taken up, however, are always destroyed by the butternickil most of

the blood.

Under certain conditions butterla may penetrate
int the la er not only through the branches of the
portal ein, but iso by a of the blood stream
through the hepatic artery—as, for emaptic, in
proceptral fever supportation of bone misenin,
furnacies, and carbuncles—or more tarrly by way
of the himb streams

The biling prisinges re the most important on riers of infection. Certain kinds of bactern arquire fraumous growth in the gall bladder and, once

crilly when there is decrease in the contraction of the bilary passages or a bilary stame, ander site the liver. They may enter the liver ho of the adjacent portions of the storaich and intertine are so insured in their sile become rermeable.

Rehfuss, M. E., Gell Bladder Discuss. South M.

COMMENSATION (III)

With regard to the etiology of lemons of the galbladds, the author points out that certain types bactern he a special predilection for the line and blassy tract and it the same time certain percent are of these ill mot a the stomack and diodestors. This might explain the frequent association of the it types of lemon.

Att ation is called to the specific elimination by the life of the colon typhoid group through the bile

the entire that the state of the case of repetitive size of the case of repetitive size that the transport of repetitive size that the size of repetitive size that the size of repetitive size that the streptocomes when the size of the

Biharv lithrius is often sociated with hyperchoicaterotemia. A faulty liver oft may precipitate the choicateroit I form stoors. There is decoded increase in the choicaterol in the blood during the early month of pregunacy and in the considerent stages of typhoid fever and other choices. Process the error in metabolism are pt to know stoor.

formition.

Case of gall t ne colic te not difficult t degnose. I the horone type of case with few or so
cute exacerbations insistory of changes in the stool
and flatulent dy spepies, especially following the in
persion of fats, the presence of air in the stools
hearthum spatic constipation, dilation of the

ercus in particity of the descending colon, and trushenses and dateres on the gail bladder report are of disposition important important indirect estimates of the descending deformation of the descending the formation of the descending that the lesser curvature. In may not be descended to the descending the formation of the descending the formation of the descending the descendi

Resarding duodenal intubation the author is of the openion that it is impossible to btung pure sample of bile or t drainfect the upper digest tract. On the other hand he believes that separat fractions representing the ducts, the liver and the gall bladder may be bisined although they are not pure secretions. He states that the evidence drease in the bile a similar t the information ob tamed by minalysis, gastric analysis, spinal fi d examination. In studying the bile he moders the following factors () change to color and con materics () an increase in the cell court (3) the presence of abnormal elements such as cholesterol (1) stale, (4) the presence of crystals of amino tide, leacts and tyrocin, and (5) exidence of profuse epi thehal exformation and clumping of leucocytes. The

serus test for obstructive jumplies a significant infection and stone are both due t conditions outside of the gall bladder. The resulting phenoment is supposed to the gall bladder. The resulting phenoment is supposed to the supposed to t

The intestinal tract must receive the tion since tone elements absorbed into the portal circulation came liver changes. Transduodenal lavage combined in the Murphy drap relieves balany taxis.

Cases requiring surposal intervention for those such there are recurrent acute attacks up to of medical treatment, those with gross deformation in the right upper quadrant those with common duct block, and those of persons of cancer go who do not also improvement under medical care.

NILLIAN J PREMATE M D

Griffiths, H. E., The Relation of Deceme of the Gall.

Blockfer to the Secretory Function of th
btomach and Panerens. Leave 0 3 cm sos

It has long been known that there is close relationally bet even jul bladded disease and digast distalkance. The lose proximit I be disole sum the gall bladder the head of the po cross of the pilorus makes it difficult in some cases it dispose disease processes in these different lacera accurately. I row an automical and physiological standpoint it is important I remember that from no to go per cent of normal persons crosscents and or fold I perstoneste extends from the neck. I he gall bladder down and it the first portion of the discolution. The presence I was a band does not discolution. indicate inflammatory disease of this viscus. The uthor reports one case in which contraction of the cystodiodenal fold due to cholecystiss lead to complete obstruction of the diodenum.

The vagus is the motor and accretory nerve: the seal bladder of bile passages, not the sympatheti from the ninth right intercostal segment is the scory supply; the gall bladder. The again is the motor and accretory nerve! the atomach. The pancress der et in cerve supply from both the sympathetic not the vagus. Inflatingmotory mritation of the macrois membrane issing; the gall bladder results in a reflex utritability. If the gus etting clinefly on the atomach and leviding; I an increase in both the

mount and the cadit of the gustric piece associated th relaxation of the pylorus and egurptation f in the doode in If the sensory timulus is greater pylorospasin is the result of sympathetic refer-

th ough the minth thoracic segment Infection of the pancrea is ery frequentl associated thigall bladder disease. In the greater

associated the gall bladder disease. In the greater uniber of cases infection occurs through the hymbiatos. As rule the internal secretion f the pancreas is not markedly altered although there may be an increased mount of distates in the rule.

John W. N. Yang, M.D.

jon (1, 1, 2, 2, 4, D

Bolie H A Case of Idsopathic Cyst of the Common Bile Duct (Ein Fall on schopathycher Chole dochuscyst.) Deutsche med II chander o than 15

In rare cases an obstruction of the common bits duet trastile from co-genital anomaly of the bilitry passages. Usually there is val. her obstruction at the point where the common bits duet passes through the doodenal wall. The subsequently developing bilitary strass makes empty, ing impossible because the duet becomes changed to a large age.

A case observed by the author was that of graf, years old to had never been not before. The onact I the condition was sudden w the ramp-like pairs. When the patient was don tited I the hospital her general conditions was proor and also become a superior condition of the condition was proor as the condition of the condition was proor as the condition of the condition of the condition was somewhat the distribution of the beforement as somewhat the distribution of the condition of

degrees C. The stook were bachiefy acholic. The pattert was then transferred to the surgical drusson an echanococus cy t of the birry being supercted. Operation revised tensels, elestic tumor large than amin bend which was partially described to the transverse colon in the dwodenium and extended above t the under surface of the le. It is ampossible t fid the gail bladder. The point of rigin of the tumor could not be, determined default, because of the pattern poor researd condution. The intestine was sturred t the bedominal wall. If three the rigid buds were titled as the resulting improvement in the reversal condution was soil transvert. At the stools reversal condution was soil transvert at the stools.

remained continuously schoic, second operation was performed. When the edge of the livre was rused the completely strophic and frapile gall bidder was found of The bidsary passages could not be found with certainty not could the opening of the sace his decovered. Therefore an austronous of the lowest pole of the sac with the cholenum approximately 2 cm, who was made Am crossed pace of which had been charged by chrose tandamenton. From day affect the opening of the first time. Four twelsa later the patient was declarated for the first time. Four weeks later the patient was decharged circle.

This was undoubtedly a case of shops the cent of the common bits derive when probably had it as engine a kinking of the common bits don't elike like a single a kinking of the common that of the common that can be suffered to the common that denders an additional factor in the observation arreptocone being found it be puscifate of the six. The diagnosis was made one possible of the six of the common that the common that is the common that the

Burnham, M. P. The Importance of Indirect Rosingset Fundings in Chronic Infection of the Billiary Ducts and Gall-Bladder. Am. J. Rock, 1984 911 1, 95

In the early day of reentgemology the recent producest dependent for information relative t bilary tract infection cheefly post the vascalization of calcian the guil-bladder Subsequentily George above of the possibility and importantly descript actually the guilder of the production of the context training to the control of the control of the part of the part few years the author has found the calciled undirect manifestations of duct and gallbladder inflammation of mercaning size in the diagnosis.

These indirect findings are divided int t groups () changes of form and position in the first and second portions of the duodsman, and () variations in the normal gratic physiology.

Change I form and position in the first and second porturn of the dodewn are for enamily 1 pressure interest advances fortunes as cause cannot be enabled to the dodewn fortunes as cause cannot be enabled to the dodewn bulb crescents of elements, but are the discovered to the dodewn bulb crescents deformities, but are the subject of the bulb inregular deformities of the bulb not of the forecarcity type and distortion in the course of the depending designating as man cases to cry naried angulation.

The changes noted in the normal gastre physical gastre pays of the state of the state of the doubtenant. They may be in the nature of speam if the enterm in the accordary back flow of mail to large amounts of the need into the encophages due to increased minigratic testion.

the technique employed is discussed briefly Stress is hid open the finorescopic examination in the right oblique prone position at the angle which will best bring out the different parts of the diode num. This angle varies in different persons

I the differential diagnoses the presence of a ormal persistent bands has sometimes been of ormal persistent parts of the control of the tructur. Instructing quite different from those of lewon of the lattery system. Several cases of ulers of the decelement with old perforation resulting a facilities of the bells. I arreptainty of contour not of the type smallly her to taken he here never, in which the control of the control of the control of the latter of the control of the persons of both latter of the control of the contro

ADDEPE HUNTENS M D

Abell, I Surgical Treatment of Deceases of the Gall-Bladder South V J ross, xx. 5:

Neopissms of the gall bladder require surpoil treatment, but are insubous in one-ct and frequently not discovered: time for cure. Admonsts of the gall bladder are found today more often than formerly. These growths result from the irritation of infection of the pressure of stones.

or the primary of the price of

In the other opinion the gall bladder cannot be dispensed with as readily as the appendix as it has definit function though at present this is not thoroughly understood.

Cases of gall bladder infection in 3 be divided clinicall in in three groups () those with scate mfilimmation in the without cristic duct obstruction () flower the history of cole and refer garrie disturbance (3) cases in which there is no lastery of cole, but complaint is made of equations disturbed dispessive disturbances.

I the first group the induction for operation is obscures. To others must be caref for seconding to their particular requirements. Any guil bladder reflected the sease of require operations about the removed as in such case it serves as focus of micros for the ducts, the pencrease, the moveration etc. The chications of the common door following the choice sections. If it is adequate draining of the from the liver in proteinged cases induced of the common door to the common door the common door to the common door the common door to the common door the common door to the common door to the common door the cown door the common door the common door the common door the commo

I cases of common duct stone and painders it is worthly safe t remos the gall bladd, and employ common duct dramage. When septic cholangitis and her beens represent dramage and cars to odd unnecessars trawns are mopertant. Pro-

longed jaundice greath moreones the operational

Alkahne water should be given previous to operation. and transferson resorted to as a added protection MILLIAN I PROBERT MID

Friedrichen, M. An Unusual Case of Spontaneous Renture of the Soleen Cured by Solenectoms (Ess durch "pleuektomie gebeilter seltener I all au "poutanroptur der Mils) Deutsche Zische (Che o cirtus, 45

The nations as man 27 sears ald who as t the front during the entire time of the World Wa sedered slight att ck f typhus, pd ubsequently had februle ententis of six week diration. Previouslike had never been sick. Most important of all, he had not er complained from From March 10 to 14 1010 be had slight inflamm tion of the throat but [ll recovered The runture of the spicen occurred several d v 1 ter hile hi was atting in his office and was the case of en evere and prolonged harmorth ge Splenectom was followed by complet recovers

At operation, the liver was found of normal size An intra enous inf son of campbor d sodi m chlorade solution after the operat to h i sank my effect. A pathologic natornical liagnosis of leukamic spleen a made because of the hange m the tusties. The blood m show d marked increase in the hymphocytes. The tho ttribut acute infection or an earl h perplants process in the turne controlling the blood. The course of the disease and the absenue t ndition of the patient who we entirely will to and one half years feer the operation speak against throne leukernus. The author believe the ondetso and corresponding reaction I the hamatoposetse them With the exception of the spleen the Imphatic times of the body were not in ofted In December 020 one and one half ears after the rapture, the patient was subjected t an ppen dectomy The blood pacture I that time as normal (oun (Z)

Ven Stubenrauch Surgery of the Spicen Ligation of the Spienic Artery (Zur Valschrungs Das Lagater der Arteria benahs) Deutsche Zische f Chr 922, chrus, 374

In the case of 66 year old man, ho with gout had hemorrhages from the skin, the kidneys, and the intentme in \oversber 920 the main branch of the spieme artery was ligated 8 m from the pleen after the accord arrest f the hamorrhage James 6 0 The course of he ding as some what disturbed by singultus lasting for eight day and by slight suppuration of the bedominal wall

Previous t the operation the blood picture was 4 follos hemoglobin 3 per cent erythrocytes, 1,100 000, leucocytes, 0,000, congulation time t enty Minutes, no myelocytes, and few ucleated cryth ocytes Nearly all of the normoblasts ere suppled and the blood platelets were unusually few T enty fear hours after the operation the number of blood platelets was about normal, and mant blood plateets, a larger number of isolated myelocytes, and replated topoled en throcy tes were present. Seventeen days later the blood showed marked porkilocytosis not ted pale blood discs, monogouclear

leucocytes, d large umber of blood platelets Since tugust 92, the patient has gu followed his calling as office clerk has had no more hamor hages and has been free of symptoms I July g I marked poskulocytous, only a few blood nl teleta and related folly bodies were found. On turned 5 o more the earlyt me the after the oner two the harmorlobin amounted t oo per or t the most to be a the clorinde t o 86, the rythrocyt t 5 200 000 and the lencocytes to oss there ere no abnormally altered erythrotes, fen blood platelets, and no Jolly bodies. The

blood congul to time was sev n min tes On the basis of the case observed d the others procted the liter fur. St benrauch ecommends the highton of the object arters in place of extirpatue of the releva in certai forms of blood discuses vectors of the spiren can be definitely avoided if the limition is made distant enough from the libus of the plea CYPITE (Z)

Foot N. C. Studies on Endothelial Reactions. Changes in the Distribution f Colloidal Car bon N ted in the Lungs of Rabbits Following Splenectomy J F per Ved 0 3 mm, 30

Viter splenectom in rabbits, colloidal carbon introduced into the circul tion is removed primarily In the lung hich compensates for the loss of the nicen and contains the more carbon than that of normal bbst

The live bone marrow and peripheral lymph odes show no marked literation in their phagocytic ctrs t as compared with those of controls do not ompensat for the loss I the spleen

The cells phagocytosing colloidal ca bon in the lung ppea to be produced there, rather than in ther organs as under these conditions proliferation of the endothelium occurs chiefly in the lung

These cells remain in the pulmonary capillaries and hymphatics or are thrown into the circulation I the latter case there is apparent increase in the umber f macrophages in the lumina of the ls er annusoids, but nowhere else, indicating transference f carbon from the lung to the liver within

It appears probable that these cells are destroyed in the h er and their content of carbon is taken up by the paren hyma, since the latter frequently con tains carbon particles and show mit tic ctivity

SAMUEL KARN M D

MISCELLANEOUS

Silleck, W. M. Penetrating Wounds f the Abdomen Am J Swg 93 xxxxx, 3

This discussion is confined to abdominal penetrations seen in civilian practice and due t

or bullst. Practically all such wounds are made it close range.

To types of cases at considered one in which the bidomen is penetrited directly through the punctes (in these the diagnosis is apparent) and the other in which the penetration is indirect the condition being only surmated from indefinite abdominal signs until hypotomy is performed

Significant signs usually present are hematemeian, suggesting stomach or duodenal injury melenan, mickating as intestinal leason bloody time indicating escal or genito urmany tract involvement the escape of characteristic fluids from the outed and the protrusion of oscentium

or intestins

Shock and hiemorrhage are practically alw ys
present. Persistence of the former usually indicates
the latter which is suggested also by pallor thirst,
a thready pulse, and claiming skim, and some
times by whitten a reaso of dullness in the flanks.

The uthor classifies these cases int fiv groups Perforating wounds without intra-abdominal injury Wounds of this type are rare. Uneventf I

recovery follow

Hamourhage in the basine of waceral leasons

This is practically always present and is directly
dependent mon the seventy of the laceration and

the parts nowbred

J. Perforstons of bollow vracers. In general
the intensity of the 19 improves and the cleamens of
the physical findings are almost in direct ratio to
(1) the districts of the liberated intential contents
and regimene of the liberated intential contents
coverly. Persons with next in general caverity. Persons with next in general caverity above again
alone, alsoformal tendersees, and rectus spann
later these signs are gradually overshadowed by
the moressing manifestations of perstoogal imits

tion

A Injuries to the solid organs. Such injuries in to complicated by Incertations elsewhere are set summed the mortality depends upon the possibility of controlling the harmorrhage, which is generally

profess
5 Mass bemorrhage Persons with massive bemorrhage are practically mornhand when they enter the keepstal and most of them the within few hours

A gunthet or stab wound of the abdommal wall is a sufficient indication for immediate exploratory laparotomy. The incresson should be large and so olseed that it must flectively broass in view all

laparotom) The incisson should be hirge and so placed that it must fifetively brings int view all the supposedly in olved vincers. Solid organs are packed or when possible (spleen kidney ovary uterus) are removed if the hemor

rhage cannot be controlled uttern tear through and tred t aggra is the condition Perforations of hollow viscers are losed with absorbable satures. Resection is indicated for () multiple ounds within space of or 8 ns.

absorbable futures of the condition of t

and (g) cases in which closure would cause definite obstructio

A peritonical cavity free from blood and inter-

tinal contents can be left without draw but con tuned coming and the obvious presence of intetinal material necessitate very free drawage

An immuning dom of brance antitume as given less the patient enters the loopstal He as then placed in a warm bed. Morphine as shall be mid a diagnosia a made After operators, nor plane with atrophe is diministered generous and rectation encomes of ginose and lasky are and rectation encomes of ginose and lasky are and generously combated. The due along the said generously combated. The due along the patient contrasted as rapidly as possible and the patient.

gotten out of bed as soon as he fs physically able.

The prognous depends upon the structure in overed the amount of material which has except from the hollow viscers, the amount of henorrhage, and the time which has elapsed since the migra.

Reneshed J L. The Diagnosis of Obscure Chronic Abdenimal Conditions. Am J M Sc. 919, city 30.

C CORREST Y NORTH M D

The exploratory languagemy is falling into the decard also greater enterorious done in the becare of demonstrable lesson in the stomach. In the latter case, the true cause of trouble, the gall bladder or appendix, is often left and continues I cause symptoms suggesting uker. Movnihan has depenated this condition appeadix dyspepes. There are no defi gate ttacks of pain and the pain is less severs than uker pain Instead of food relief there is increased dutress after food and after exercise \omittee after quent Flatulence and heartburn are the most da tressing symptoms. In few cases there is woming of blood due probably to minute total along or erosoms is the stomach. Superficial repolity of the right rectus muscle thout localized pain, or epigattric pum produced by deep pressure over McBurrey

point is an important sign.

Refer symptoms from the appendix or gill blad der may came pylone spram lending to gestric state and hy persocial tousems, escal stans, are gularitation immetiunition or cardia. disturbances. Reflex engistrice pain is common. Removal of growty normal.

apprints often clean up the symptoms. Mechanical interference such as that camed by affections a timeference such as that camed by affections around the gall bladder may emburna gratum one mental Periceral adhesions may crose intestinal tasis. The correct disgrams may be at bladded only by the occurrence of default and the such as the control of the such as the su

actual gastric lesson

Choiceystills may be present without pain. I some cases complaint has been made only of back ache between the shoulders

Engratric herma may produce similar symptoms but m ery rare. It may cause vomiting or acute pun but rarely chronic invalidism.

Of 150 patients given a routine Wassermann test twenty four had a positi reaction and of the latter at had indergoes abdominal operations without beach. The condition is often congenital loss

CANCE E TAKEBOY M.D.

Laesen, A. Segmental Localization of Pain Through Parascriberal Norocaine Injections as a Deferential Disgnostic Method in Intra Abdeminal Dissass (Urber agmentaers Rehmers sufficiently durch para ettebrale Novocainaryck toson for Indirectaskidespose intradiocumater Ettrackungen) Usracides seed Il strate o

In sinety cases of abdominal pain Laewen gave para citcheal injections of novoccinie in order it determine the segmental localization of the pain I salt stops color the injection of tim of per cent solution over the tenth dornal trive bolished be pain. The procedure provved valuable in both the

diagnoss and the treatment

It is found that impastive cases an injection over the swenth down juryer greatly allowated the Dun of pylone, ker. Renal cole was influenced by Section over the first and second insular neriver Appendix pairs were influenced by injection of the first and second insular, but not said and section of the se

Sents L. R. Pneumoperitoneum as an Aid in the Deagnosis of Subdasphragmatic Conditions J Am II Am 9 3 lext 464

Sees pseumoperstream as fart used as a rul of usoning my dispose, much has been done to sim pirty the technique of the dispose of the technique of the determine the full possibilities of the method. While its polication to the daynous of beingbrampantic conditions not as was as for that of conditions in other regions of the stockness, a bulgarbrampantic leasees being limit of the abdome, and a bulgarbrampantic leasees being limit of the abdome, and a bulgarbrampantic leasees being limit of the abdome, and a bulgarbrampantic leasees being limit of the abdome, and a bulgarbrampantic leasees being limit of the abdome, and a bulgarbrampantic lease being limit of the abdome, and a bulgarbrampantic lease being limit of the abdome, and a bulgarbrampantic lease being limit of the abdome, and a bulgarbrampantic lease being limit of the abdome, and a bulgarbrampantic lease being limit of the abdome, and a bulgarbrampantic lease being limit of the abdome, and a bulgarbrampantic lease being limit of the abdome, and a bulgarbrampantic lease being limit of the abdome, and a bulgarbrampantic lease being limit of the abdome, and a bulgarbrampantic lease being limit of the abdome, and a bulgarbrampantic lease being limit of the abdom

tled, the miormation i gives is often decisi State reports the case of a young man who was admitted to the hospital with chills hugh tem perature, and pass in the back. A perinephritic abecess which was found on physical examination was moved and drained. The temperature then fell to normal Drainage continued t decrease and t the end of the seventh day had practically coused On the seventh day the temperature gain rose ud dealy and there were chills and profuse persperation Both physical and rountgemographic examinations reveiled moderate collection of pieural fluid and mmobilization of the disphragm on the affected ade All of the symptoms suggested involvement of the subchaphragmatic space. Examination by paramoperatoneum, however proved that the sub duphragmatic space was not in olved nd simple thoracotom) resulted cure The information

given by pneumoperitoneum therefore guided the urgeo his choice of operative procedure and led him to pe form a m ch less formidable operation than third seemed dicated.

Preumopentoneum may be of deem and also in case. I curdisopasm f the lower end of the essophagus, dheaton of the viscera to the displar gm and hermit of bollow viscera, through the displaring m

Cancel, A Retroperitoneal Cy to (Delle con

GEORGE E BEILLY M D

retropentocach) and a day o n, 48
Retropentocal cysts develop in the retro
pentocal tystic connects e tissue of the bidomial cis it. C to of partially or completely retro
pentone I organs such as the kidney supprarent
caprails in panciers are excl ded. Sessile or
pediated ted cysts may be propagated int the
retropent toest space from the organs mentioned
and thus but the majority occur in the costance are mainly retroperty to the copention of the super renal capsule or panciers, or
as underse ded testis.

C ucci lamafies such cysts as follows

Epithelial crata () ectodermic origin (der mod) () mesodermic igin (Wolffan body), (3) endodermic origin (enterocyata) (4) embry nal (teratomia)

L mphatic cysts () simple (serous and ch lous) () lymphangiomatous

3 Peeddocy ts () hierant matous () serous

(3) unitary (4) princreatic (5) i flaminatory (6) peopletic

4 Parentic cysts

Échinococcus retroperatone il cysts re rare and of less importance than co gen tal cysts. They may be propagated from the pancreas, kidneys, muscles vertebral olum etc.

The thor reports the case of man 63 years of age who had had enlargement of the botomes for long tim. There was dustinct tensely fluctuant scaling in the left equivariant of finish flower inflation stomach and had been a free report to the case of the color and force and the operation the department of the color and force get the small bowel in the right used of the bloomen. Fire liters of turbed fluid occulent material ere whiches from the color flower than the color and force that the color and the color and

opening The cavit) healed in right too the hantoon Series, M D Collims, A W Migratory Tumors of the Abdomen R York M J & Med Rec. 9 3 crym 65

References in the standard textbooks and current interature t berra to a indening tumors of the abdonen are few. The extilent case found in the internture was reported as 160. With none exception, all cases reported were those I women. Campbell and Over denombed a tumor remove of from a man 60 years of age. This growth had been noticed for termity five cart and at operation was found to be free from any trachments. Its surface had the placeting appearance of Birodi, and on cut see team the center was found it be calcurated and the use of the content of the calcuration and the market.

The vast majority of the other tumors reported were found in women not operated upon previously. The growths were fibroids or ovarian cysts which had become detached and remained free in the abdominal cavity or had formed new attachments

In one case reported a fibromyoms of the abdom inal wall, evidently due to re implantation at the time of operation, was found ten years after a hysterectomy for abromyoma. Two cases of this type of tumor are reported by the author. In the first the tumor was tracked to the colon and secessitated resection of a portion of the colon. The microscopic examination showed it to be a leiony oma similar in structure to tumor of the steres removed four years previously. In the second case five encapsulated tumors were removed from the antenor abdominal wall. Macroscopic examination showed them t be cyatadenomata. A previous operation had been done on this patient for the removal of papillary cystodenoma of the right IE Racancon M.D.

SURGERY OF THE EXTREMITIES

CONDITIONS OF THE BONES, JOINTS, MUSCLES, TENDONS ETC

Park, E. A. Gertain Factors Causing the Deposition of Lime Saits in Bone Destal Corner 9 3 hrs 16

Marked and typical rachite lessons habers produced in rats by the use of dets high in calcium and low in phosphorus. Photomerographs of home recovered from rats given treatment after the production of rachites show almost complet recovery.

The treatment employed is the experiments as the well-established use of cod liver of and similght It was found that starvation also increased the amount of lim salts deposited in rachitic bone-

fact explained by the assumption that the starving minal dra upon its bod ti-sues for food, thus consuming its exrbohydrates, protein, and fat and liberating the amount of phosphorus necessary for

socratal bone anabolane.

Renelgesocyams of tw of a set of quadraplet childres demonstrated clearly the aline of col incredible of an anabolane color of the colo

Emphasis is laid upon the advasability of sachasis considerable amount of green food and milk in the det of the pregnant woman and of the importance of grain balaser of the real and expounts them it direct smallgalt and frieth our Membons is made of the fact that ordinary under giass filters out the radiation of the similarity which prevents and current rights.

quarte lamo

Hloodgood, J. C. Bene Turnorn; Serceme, Perletted Group Scienceing Type, Ostrogenic, Virtual of Desgnosis and Treatment. J. Edwi. 793; 17 45

I cases of bone tumor amputation should be dose without delay if permanent cure may be expected from it.

On the bass of the V-ray pacture the author divides bone lessons into two main classes () the central, and () the personnel.

central, and () the personnel.

When the evidence is atrough in favor of malignant process no exploration is necessary if the decision is made to treat the case. It redems and the X ray III amputation or resection is contraplated, expectant treatment dimmanhes the possible

thes of cure
The number of cures of periosteal sarcous after
amountation is relatively small

The author cites of sarroum arrefrong the more and appear end of the thins, griftig the detailed channel harton. You meterperation, and treatmost! H emphatisms the supportance of investigating localized pain in the region of parallel dischool order. The arrest of pains, but also the corresponding boss or joint A case of selerosing outrogenic surreums in reported in detail.

The author recommends the examination of specimens removed at exploration by means of Terry polychroms methylene blue, and urges the perfection of froze section study of specimens.

Marian Braserine, M.D.

Kaufresann, G. Sprains of the Large Johnts of the Extremities (Die Ventinckung der grossen katremutaetengelenke) Schwert und II chunde 1921, kt. 37 276.

If rut. Sprain of the wrist is the most common sprain of the upper extremity and the second most common of all sprains. The thor agrees with Bardenheuer that the chief injury is restained by the joint caprale. This is tretched much more obtained.

that it is torn. In discussing the symptoms the author emphasizes particularly the facts that pres some is one shighted pre mind or not painful at all, end that closure I the 6-t is little disturbed when the hand and forearm are placed upon the table to effusion into the joint is almost 1 as a present. but as this occurs also in fractures fracture must be excluded by roentgen examination. I rupture or separation of the epiphysis, which is much less commen, an effusion is not present, the swelling is less and the pain is rapidly relieved by rest but increased by manage. The possibility of the presence if previous changes in the wrist must be born in amd, particularly a fracture of the radius (Made long deform ty) and chronic tuberculous. The roentgenogram will go information regarding both of these conditions. Acute inflammations more turely cause diagnostic difficulties

The prognous is good when proper treatment is more askylons scidom occurs. The development of a beredious does not result from a sprain, but sprain brequestly lights up a previously latest tolerchose. The treatment consists of massage tolerchose. The treatment consists of massage the effects of the science of the scienc

Schools work should be prohibited for longe trace In the author's opinion the application of paster cast is not justified and the effect if the risk land is often over-estimated.

Ellers Sprams of the cibox are rare. In this condition also strictioning of the fourte capsules whost complete tearing is the chief impairy. The thor has never seen reputures: I the point legislates an case of simple strain Frequent! described in case of simple strain Frequent described in the forestern in childhood were demanded that the forestern in childhood were remarked to the frequency of the sprams of the forestern in childhood were remarked to the frequency of the sprams of the sprams of the forestern in childhood were forestern in childhood were frequency to the frequency of the forestern of the frequency of the freque

The prognous is in orable. Healing requires about three weeks. The treatment consists of rest as bed for several day, at the the arm on pallos or a extension, followed by massage. Ambulatory treatment with triangular rm sling a not dvis able.

Relationered of roles alone ! I !
Securio of the randomieral and radio ultar joints
are rare. Iousally there is severe pain immediated
after the accodent, and promation and supnation
are partial. The treatment consists in the pplica
are partial. The treatment consists in the pplica
to partial. The consists in the pplica
to promise the proposed followed later by massing: I
the surface openion the recently described eptops of the proposed promise of these
beats, and not rarely an occupational ingra-

Shealer Sprains of the shoulder joint constit. I home one-capith to one fifth of the sprains of the upper extremity. The causes are practically the same as those of intainors. Not rarely changes in the joint caused by acute articular beumatism. d

partral ank loses due to previous injuries or chronic deforming processes are present before the sprain Is all nex cases—extramation should be made for trophy of the deltoid muscle charges in the other spoodder your creptation, and partial ankylones Taberculosis may be fairly latent for a long time and suddenly become cut as the result of a sprain

With the proper treatment the prognosis of orable treatment of the prognosis of orable treatment that the prognosis of the prognosis of the prognosis of the proper treatment of the prognosis of

Feet Sprains of the foot are the most common of all gerants. In the majority of caves the mid ideal higaments are tretched complet ruptures are rare. The every pains are caused by the finnion of blood into the tense higaments. In general, hone availusous are unusual in prains, but a fracture if the external maileoins about he so possible to so up the cave of the c

In fresh during the best treshment is immediate missey. This generally relevant the pair of ourse by distributing the efforced blood after the massive compression bendage about the patient of the pair of the patient of the patient may be allowed be patient of the pair of the pair of the pair of the patient may be allowed by the pain a so longer present in the chin bed suby when pain as so longer present in the chin bed suby the pain a so longer present in the chin pair of the pair

K ex Sprains of the knee point constit t bout of per cent of all sprains and 8 per cent of the sprains of the lower extremities. Here gain complet values or rupture of the legaments occurs only in the most severe sprains usually the major of the mensions constit its an impury in their and a rule is not associated with severe sprain as rule is not associated with severe sprain to occurring normally in the knee Any I the harmonic may be affected.

These myunes to the hyaments re frequently studie in the recutegeogram. Injuries of the lateral hyaments can be palpated directly. The diagnosis can be made if fractures can be excluded by the recutigenogram and sigures of the meniscus excluded by the history. Early appraison is valuable in the diagnosis. An effusion of blood indicates fresh injury the dimitrative of lat droughts.

fresh injury the diministure of fat droplets fracture and clear or preformantly serous effusion in the first fee hours in distinct the signs such as thickenings of the joint capsale trophy of the quadriceps muscle etc. premous disease. The history is of little at as chronic

s flammation of the knee foint often has I tile effect

on the functional capacity

The prognous depends first on the proper treat ment I cases of alight gen vulgum the course is usually not disturbed but when there is marked seen valerum it is charded Not rarriv a deforming arthritis results after the spram, but if the foint was previously healthy this heals fter a time marked aggravation of a previously present arthritis deformans as result of sprain is rare. Ambulatory treatment of fresh spraus of the knee should be discountenanced. The patient should be kept in bed until movement has become purosumately normal. The effusion should be aspurated on the inner side of the knee with a cannula a mm, thick The foint should be completely emptied. After the aspiration warm, most compress should be anplied If necessary the aspiration may be repeated After the centation of the first pains, careful chi exercises and massage should be begun, particular attention being paid to the quadraceps muscle. If the nationt is not allowed to get up until the return of approximately normal function he should walk energetically and with a fully extended knee thout the aid of crutches

As trile a complete cure results in three to six ecks of this is not the case serious lacerations of the lumments or an arthritis deformane all minelly he found I I can cases of this kind, motion should not be been before four weeks, and extensive mo tions must be a orded. Limitation of motion per sisting longer than one year after severe distortions is usually permanent. I chronic by drops, aspira inherculous. This should be followed by few days of rest with the polication of compresses and treat th energetic massage and movement only in very rare cases as the ther compelled t resort to arregation with carbolic solution arthritis deformans, massage is d suble as long as the excursion of the motions improves this condition often heals after time if the patient is not too old

H j Datortona of the hip sout are rare. The thor has not as yet seen default case. I young persons there is urusily testing of the epolysus of the head or to complete separation. Indeed, older persons there is artistia deformant. The treatment consists of rest in bed for three. sets with th leg is extension.

Volkrimmin, J. Se Called Crapitation of the Scapula (Ueber das sogmants Scapularkraches) Ali Rekeres o 155

In the sat majority of cases of creptations of the scapies the conditions of our to overhanging of the simple dissolution in the contribution of the timesfed absolute blade or small contents at the muscles ([settem) and the appearance of people-forms morous ([settem]) are usually septimentally the case the condition of the condition of creptation is dependent upon the multiple condition of the condition of the

those resulting from trauma, scolous, or takerodo as (atrailing processes in the plears and lumg). In severe cases the treatment abould consta to the chiefling or clipping. If of any boay prominent through longitudinal measion at the more border of the absolider blade or through a curred necess of the absolider blade or through a curred necess. If the case of puttents were dead operation, treat he case of puttents who dead operation, treat

ment by bandages may be considered.
Four cases are reported. In the one which is treated successfully by operation t to beny elevations were found at the maner upper edge of the shoulder blade close to its stagle. The largest high way are to a post produced most by abuling over the encode and thard tale. In the three the contribution presented to operation of the product of th

Kappis, M. Snapping Shoulder and Velentary Dislocation of the Shoulder (Schulpende Schulter and wilkowscho-Schulterwertnium) Arib I arking. United Cher. 0, 22, 315.

In the other opasion most redunitary dates, town of the shoulder are case of to called suspense shoulder in the there is no distoration, but the bead of the shoulder is drawn in the suspang sound forward or backward under a stretched muscle bounde of the delicid. This displacement is produced by sociated contraction of the moreles of the upper arm and shoulder blade or of the upper run and

Mappe collected thatten case. The absolute mapped lanckward in the and forward in the One boy was table to map his absoluter either forward or back, and in no case was any denses of the hold of posts found In many materies tarress of the capsule as assumed, but in the author's openion is as not personal providence of the compile as assumed, but in the author's openion is as on personal movements as the capsule and now particular soft ports normally soft.

As rule treatment is unnecessary as this code to usually occurs us young persons in whom it dispersion sportaneously in the corns of year. Two wontarty ordinations unabsolutely occur but they are rare and indicat the presence of marked change in the joint. In conclusion the thoristic that sort of snappaig may be produced by could come in which the sortial movements of the joint are inhibited by an inter-articular or extra stream cause (catching of the greater tubermenty in a cleft

sufficient room for play

between the short head of the inceps and the concebrachain muscle) Busca (2) Satta, F. Operative Treatment of Supracondylar Fracture of the Homerus in Children (3)

tra tamento operato: delle fratture sopracuisti loster dell'opero nell'età miantile) Chir d'orpeni d' borrancaio o vi 63o

The uthor accepts Kocher's ferron and extension classification of supracondylar fractures of the jumerus H found only one flexion fracture is twent) two cases of children under 12 years of age. These elbos fractures caused by extension are equivalent to posterior elbos dislocations in the dult. Anatosoxal reposition is followed by functional recovery

The dissistal method f closed reduction is usin thy necessidal, but the fact that the forestmen is blooght to a right or an acut angle does not necessarily adocate that reduction has been obtassed A controlling stangerm is required. A mostled spital is preferable to a circular cast as the latter endangers directation. The period is mostledistical should be reducted if for eight mostledistical should be reduced it from eight be followed by active rings of tendatys, and should be followed by active rings of tendatys, and should be followed by active rings of the days, and should full core has resulted.

Opponents of this treatment fer new bone formation in the extravasated blood or myositis ossificans. Ambulatory splints and skeletal traction

are not well borne by children

Cabitus arus resulted in 25 pc cent of the tothor cases, and in more than 5 pcr cent late operation was done in many cases the posterio and methal displacement. I the datal fragment cannot be corrected even under annethesia open operation being therefore necessary.

Su cases to reported I some of them met lh firstion as used kritoon Serie, M.D.

Ciscus, S. A Contribution to the Study of Regidity of the Hand (Contribute allo studio della regidia della mano). Che d orge d suo mente 92

The author enumerates the arross traumatic and minamatory, leasons | the hand resulting in pights. The success of treatment to or from the pights depends on the cooperation | the patient liaid inputs we caused essentially by limitation of nost movement resulting from alterations and tractack cartilages and the capsular od other squeezes the pights of the pight of the

Lenous tach cause finger regulary re direct mymers, such as contusions, grains dislocations, and stars articule fractures disdorted improve one t woman of the soft parts of the hand of forearm, lessons of nearby point and erer trunks probagged match 1; of severe and long at a day afections, especially those of phegmonous character.

The utbor reports four groups of cases due to (1) transatic injuries with or without infection (2) pak genomes infections (3) fract rt of the foreign, and (4) unreduced fract re or occurred to the contracture for the contractu

Camurati, M. Conz. Plane and Tuberculous Osterite of the Neck of the Fermir (Lova plana el osteric tabercolare del collo lemonale). Chr. d erren d merincale 9 1, 685

The author reports a case of localized t berculous selects of the neck of the f mur in a 5 year-old child The progress of the daesase is shown by five aking mans taken over a two-ver period. Although the leg was immobilized, fletion and restricted abdue tion were bituned. There was shortcamp of it is assumed to a bottening of the peck and lessered neck angle in 900 Waldenstrom reported aimliar cases in which the healing of localized tuberculous outcits of the femonal neck papered as core plans.

LELLOON SPEED M D

Hass Angiomats of the Capsule of the Knee Joint (Ueber Gefacastumorea det Knegelenkkapsel) Desiteke Zinder f Chr. 9 2, czalu. 50,

The s thor had occasion to operate on two cases of hemangioma of the capsule of the kince joint in which the history and findings were in marked arrance with each other and for this reason allow far reaching coordinates regarding the prognosis and treatme to of the condition.

The trut case was that of 300-year-old man who, same his fifth year suffered a thin pair if it elling of the lance joint inch under the diagnosis of toberculous, as iterated for years by the application of plaster cast. The patient came under the thor's care his tenty thard year. There as the name dissue it the joint and this knee rould not be extended completely. Expitation in the joint years was negative. There are not reconfigurations was negative. There were the reconfiguration was negative.

Operation rerealed large varices in the fascia and the fibrous capsule. The joint was filled with agomatous masses which covered the synovia every here. The cartilage and bones were intact diter the removal of these masses, bealing with

complet function resulted. Mere t years the same symptoms recurred At the gr (30) ears the patient again requested to timent. Examination revealed moderate effusion in the lane anxone cun, and missibility attophy of the leg. The roentgrinogram disclosed hone changes.

Operation bowed the spread of the recurrence to the point ends. The point was again filled as thangi omatous masses the patella was completely demuded of cartilage, and the tumor had reptored into the bone and the county less of the femur. After a careful custon of the spound, during which cavity was found in the tubia and after removal of the crystels of the point with all the receives the bony portion of the point was resected. Good consolidation and care resulted. The hatsloop report was cardilary

nd precapillary ammona of the synovial membrane. The second case was that of a 3-year old gut ho since the tim of her borth, had had several annull reflumora below the left knee hach gradually great it he size of bean One of these was extirpated a years previously but recurrence which caused marked imptons on walking developed

immediat ly. At the time of the examination by the thor a moderately movable, very sensitive tumor

the slap of a all ut as felt under the escatrex above the patella on deep palpution, and below it in an rea as large as the palm f the hand, a umber of small blush movable tumors. Motson of the joint was ery painful. On roentgenoscopic examination

nothing nathologic as found

After the extirpation f the small tumors, the larger tumor was exposed. This fibrous growth, infiltrating the capsule, had prohi rated through the fibrous capsule of the loint and in ginated the expoyed membrane in and A portion of the lorest capaule measuring 8 by 4 cm was resected. The

rest of the joint was normal

Healing occurred d ther was no ecurrence for nine menths. The pathologist reported as stem of thin walled, communicating, blood filled cavities enclosed by firm connect there and penetrated by thick walled blood vessels CZALLEDORN answer.

In both cases the notable featur was the severity of the symptom I g the tumor in the first case aboved pronounced destruct a tendency by attacking the cartilage and bones, but in grather tendency had not yet day loped. I the second case. the circumscribed tumor of the capsule as bont to rupture int the bones Both tumors ere con-genital and, according to Ribbert should be inter preted as doe to disturbances in fetal develop

ment

The diagnosis of the non-pulpable tumor is difficult, especially to differentiation from tuber culous According t Gangolph and Sabourtat an important diagnostic ergn is the difference in the circumference of the hanging and the suspended thee I the roentgen picture the absence of trook of the bone suggests the beence of tuberculors. In cases of carcumscribed tumors the prognous as fa orable as regards function, even though large sections of the capsule must be resected. Lacken co ered the defect in such case by free trans plantation of fascia I cases like the arst one described radical rebef can be more only by resection of the joint and exterpation of the e tire tumor T 1000E(X) t water

Helistroem, J So-Called Osteochondritle Deercans of the knee Joint (Beirng zer konsine der sog O-teochoudrens daneeurs im Kanegelenkj Add chargery Scand 9 1, by 90

Koenig, who established osteochondritis dissecans as chuscal entity denied is transmatic etiolog. A definite solution of the problem of its ctsology has not yet been ranched. The author reports several cases as follows

Case 1 The patient as a girl, 8 years old who fell on her left knee five years previously. Thus sondent caused no swelling and site as not con fined to bed, para was only occasional Sabse quality repeated locking of the jor t occurred and crepitation was noted on motion. The mentions gram revealed usuall round sphater of bone t the innet couch le ci the femat

A median rehitotomy was done but no free sont bodies could be found. The tenor portion of the medica menucus was compressed and in shreds and as therefore extirpated. Hartologic examination showed fibrous atroph As the symptoms remained unchanged fter this oper tion, another menterno

gram as made. This everiled a broken of piece of bone. A second operation exposed a mere of cart. lage as large as thumb neal t the unper condyle of the femur which was expansied from the rest of the cartilage b shight groo. The sequestrain was removed but showed no histologic peculianties

After the second operation there were no further

Case a A laborer 25 year old complained of locking of the left knee which had occurred for one year There as no history of trauma Marked effusion in the Luce was found \ ray examination showed small pacce of bone separating t the inner condyle of the femur. Operation reveals 1 small ca it) in the inner condyle hich as filled ith a umbs. I pieces of cartilage and bone. The pieces of bone were removed but poeared normal on pathologic evamination. A complete cure resulted subscouent \ ray examination an entirely similar condition was seen in the right lace point Case 3 Alaborer 3 years ki, had noticed the protrusion of hard body on the inner ad of the right knee you t for eight d 3. There was no traums and no locking. The you t mouse was demonstrable only in the roentgenogram. A corresponding defect as porgent on the inner condule of the femur

The joint mouse us removed by operation C st. 4 Laborer 53 cansold felt on his left knes at years previously but only recently had become unable t extend the lines completely. A distinct focus as found on the outer condyle of the femur A pathologic lesson was discovered t operation The findings of subscorent \ ray examination

were the same but there ere no symptoms
(Ass 5 \ laborer 9 years old, but had staffness
of the right knee for year A scal) roughness on
the posterior aspect of the patella as socted on I may arim nation. Operation revisled small piece of cartilage and bone separating t this point Hatelopically the specimen proved t be hore

surrounded by degener ting cartilage This discuse occurs most often in males in the third decade of life chiefly labores. Its most frequent localization is the medial condite of the femur N case in bigh t as localized on the articular surfaces of the tihu has been reported Occasionally both knee yours are in olved. The condition occurs to on the head of the homerus nd the head fith second metat real hone. As myary is often mentioned in the lustory but part

as fren ao traums is remembered The imptoms vary markedly Occasionally the discuss is discovered only accidentally. Pain on extension of the kne is common symptom If the joint had has bee unit off the amproves of joint mouse are those most prominent. According

t Kinschner joint locking may occur before the joint mouse is cast off and fiten is du t jury

of the memocus

The condition is usually five led the meet groups an and on direct inspection of the opened joint, but in some cases it in y be overfooked even but the joint is opened. The recontgroups as on characteristic The cast off piece of bone h og at the depression resembles an one gli jung in bird sent After the piece of bone has apprived in the assent in the joint continue in diaster the register of the test of the control of diaster the register.

In numerous cases no publishers automostic charges have her found in the yout cardiage occasionally a difference in the colo | fee cartilage occasionally a difference in the colo | fee cartilage occasionally a difference in the colo | fee cartilage in the colo | good of the separation the su | fee cartilage in the cartilage these which usually contains the remains | fooce When the separation of complet the point mouse becomes surrounded by cartilage in the carty stages the curtilage is also considered to the cartilage of the carty stages and the cartilage in the carty stages the curtilage of the cartilage is the carty stages and the cartilage cartilage cold in the cartilage cartilage cartilage is the stage of the process in any persticular case is saving the cholony from the histology examination is the stage of the process in any persticular case is the stage of the process in any persticular case is

Undoubtedly or the process in any particular cute is a Undoubtedly ortectochordina dissection plays in supporting part in the capital of free ps. I bodies the part of the par

The process may be latent to years. Hellstroem attaches no importance in the traumat etiology t erte severe trauma. Rather is he inchned t regard repeated slight tra m ta us responsible since m the beginning there is ni lly only partual separation Slight traum ta re often f rgotten and therefore are not mentioned in the hist ry Ludloff conception is t be rejected as osteochondi tis eccurs also at sates where no end artery has been demonstrated The uthor warms against pplying the findings f Axha sen experime til investiga tion too reachly t conditions hum joints I conclusion Hellstroem at tea that miny cases are overlooked even t operation as the verage surpose does not kn w the peculi rates f th desure A importa tetiological f ctor be belie es b an incomplet fracture caused by the pressure of the Pitelli against the cond les f the fem In some cases this m y occur in condyle i the insur and in there in the patella. A frequentle the cartilage shows no fracture t is t be assumed that as it is elastic, it can withintand traumata which break the more delicate subcondral bone trabecular.

٨s rule the treatment must be operative. Free ount bodies must be emoved. If no symptoms h ve developed and if the process is discovered codentally in rocutgenogram there need be o hurry but generally an operation. Ill be necessary ultum tely. In cases of beginning arthritis an immediate operation is indicated. It is wrong to wait on every case until a free soint body has formed Il th regard to the technique of operation the a thor ecommends the median or lateral parapatellar increase I refer to pre ent a recurrence the still dherent portions of the cartilaginous focus must also be remo ed. The depression in the articula surf ce should be amouthed with the curette and f eed of gra ulations. A cureful inspection of the rticult surf ces is important. Filling of the defect as with it is not percessiny if thout operation the progress is unfavor ble as secondary thritis is usually superimposed. After operation

the prognous is good An add teenal case is reported at the end of th article. The patient was laborer 37 years old who had shight effusion in the knee joint. There was no history of trauma A small joint body was pulpable in the lateral articulur space, and in the roentgenogram small splinter I bo was seen t the lateral border of the patella. At operation unall free sos t body of cartilagenous substance was found There as correspo dang slight depression on the outer femor I condyl and fasture of m long on the posterior spect of the patella. This portio was lying loose. The hist logic vaminatio she ed the rount body to be cartilage which had separated into fibers. This case is important because there was sumultaneous myury if the cartilize on the patella and that on the condyl of the femur SCHUBBERT (Z)

Bircher E. A Contribution to the Pathology (Arthritis Beformans) and Dasgoous (Arthritis Beformans) and Dasgoous (Arthritis Pathology of Memocus Injuries (Betrg sur Pathology—Arthritis deformans—und Dasgoous der Versacus Verletungen—Arthrondenlopse) Bette Bus Cate 9 Crevu, 39

The first oo patients subjected to cartilage operations t the Cupt Hospital f Agra (cases reported by Baumann) almost without exception resumed their occupations within eight tit weeks ne half f these cases full restoration of f no tio could be assured t months fter the opera Since the report m tioned fifty additional cases ha bee operated As B mann escribed un unsatud ctory result in a few of his cases to the presence of arthritis deformans, t is important t determine bethe or not the cause lay in the operatio tself A cureful review however aboved th t the extirpation of the menucus played a subordinat part as the etiological factor arthritis deforman

Bircher undertook to approach the question from a pathological and anatomonal appect. In trendy of fifty cases of menieces injury he removed a peer of fifty cases of menieces injury he removed a peer of fifty cases of menieces injury he removed a peer of the center of the first of the same time a careful N ray examination was made. In this of these twenty cases the N-ray examination aboved definite arthritic changes. I three the findings were questionable. Handings camination aboved arthritis deformans in thirteen in severe the tasese extraed was normal. Of the twelve disproach by the N-ray as arthritis, eight therein disproach by the N-ray as arthritis, eight

were found on histologic examination t be normal, while of the night above to be free from arithris by the X-ray examination, seven aboved dvanced histologic changes. Therefore, it fourteen cases (rope cent) the X-ray examination was of no value the diagnosis ith respect to arthritis deformans control examinations of postmorterin prepensing a

elmilar results

From these observations it is obvious that is must be very cancious in making diagnosis of arthritis on the basis of as N-ray examination. Since in many cases vision of the memorics was combined with arthritis, it must be assumed that the arthritis had been present before the inputy and the question whether arthritic changes predispose to memoric immery must be considered.

To make certain of the diagnosis, which t is generally difficult to do. Baumann made an endor copic examination of the here joint. The knee joint was filled with oxygen or aitrogen by means of an apparatus intended for the production of artificial pneumothoria. It was then punctured with troogy whose cannula was provided with h

trocar wasse cannot was provided win.

Through this cannot the laparoscope of Jacobress
was introduced. Most of the interior of the knee
Joint could be seen by this method. Twenty cases
were examined endoscopically. In eight of nine
cases of memoras injury the diagnosis was confirmed.
The endoscopic examination regularly showed.

picture differing from the normal.

Arthro-endoscopy renders the joint visible and permits the recognition of degeneration. Its picce tion to the shoulder joint, foot, and imp has been above by experiments on cathevers to be impossible lise we must recuisin occlined; it be kneep some T berealison affections with destruction of the carried cannot give an except of the distinction of the carried cannot give an except of the distinction on the size of the articular cavity. On the other hand, the method was effective in establishing the integrity of the internal supect of the joint in respected case of conquest their cavity.

Camsurati, M. A Rare Case of Hereditary Symmetrical Outsities of the Lower Limbs (De an arecess of nested a monatons creditaria dept. arts in ferrors). Chr d seps. d sectional op. 11.60

The author records aking rams of 7 year-old boy and his father who suffered from condition tavol me the femora and tiliae which had painful onset and resulted in great bony thickness due to synmetrical new bons formation Similar change verifound also in the bones of other members of the family through four generation. The condines is characterized by iccalination in the bones of the leg multiplicity of sites, heredizity character, symmetry lack of supportation, and panish conserved.

In the author opamon the came is either heredtary syphilis or Paget disease. Both the so and father mentioned had negative blood Wissermans reactions but the reproduced straigrams are ap-

parently those of syphistic bone
Krizoos Serze, M D

Well, S. Functional Turting of the Lower Extremities with the Aid of Two Spring Balances (Funkhoopportung der unteres Entremateins and tele rever Federangen). Zentralid f. Chr. 1911 thr. 1206

The normal person with symmetrical body structure instincturely assumes such a position in standing that the center I gravity of the body is exactly over the aspirtal michine of the supporting surface II such a person is made it stud will each foot upon—spring balance both scales all show the same weight.

I every case of organic disease of one leg, the load upon that leg is membrately dismusted, either reflexity because of pain or for static resons. Therefore by weighing with two scales the criter it which one leg is favored the importance of critisal deformatics, the progress of the lecking processes after maynes, and the success or failure of critisal operations may be fudged.

The the cites the findings in pseudarthross of the femur contractures at the hip and knes before and after treatment comin, infantile paralysis, and scatters.

**Las (Z)

Athensen, G. The Etiology of Koehler Desert of the Hends of the Metatarnal Boss (De Athologic der Koehlerschen Frirankong der Metatarnaftroepichen) Bost Elis Chr. 19 ccr.

45

In two resected specimens histologic examination abouted edge shaped necrous of the epiphysis is association with reparative processes. The arthor as opposed t the theory that the condition is due to trauma. H attributes it to embolic obstruction of the corresponding epiphyseal end artery by tuber culous fragments or fragments ath non virulest yogenic cocu The distal thickening of the shaft he believes is due to simultaneous emboh in the metaphysesi arterial branches causing serous la flammation f the bone. The local processes t the terminal joint in Kochler' discusse ith secondary arthritis deformans are similar to the formation of free cartulagmous-bony bodies associated with secondary arthritis deformans in the other joints, but in the latter condition the traumatic etiology is CRAFFET (A) evident

EDACTIBES AND DISLOCATIONS.

Lorenz, A. A New Method of Treating Irred cibl Acquired or Consenital Hip Dislocations INIMIJE Hel Rec out Carns. so

The author recommends his so called bifurcation operation and records the emilts he has obtained with t H believes this operation is indicated especially for old ununited fractures of the eck of the femur instability of the hip due t tuberculous. scate infections, or acut arthritis old painful congenital dislocation of the hip and pathologic delocation following typhold, outcomyclitis, and other similar conditions. It gives table movable up and is to be preferred to the Gant outcotomy Peters Laws M D

Ashley A D The Lorenz Bifurcation Operation Vient II J & Wed Rec 9 3 com 35

Although congenital dislocation if the hip un unted fracture of the peck of the femur and cors vara hazans have different etsology the disturbance of function is similar in all three 1 the openion conditions causing similar functional disturbances should be similar or dentical treat

I the three conditions me tioned the pelvis is no longer propped up by the bony pillars of the femur but is merely suspended t t pper parts by soft and yielding tissue—the capsule and the pelvi trochanteric muscles. When subjected t undue stram, especially in dults of considerable weight these soft parts become punful

The uthor describes the bifurcatio operation both consusts in making an osteotom below th trochanter and displacing the lower fragme t so that it will occupy the pout on of the normal head is the acetabulum. He emphasizes the por t that the orteotomy is a procedure primary t the replace meat of the substit to head

The indications for operation are nability t all or severe pain. Ashley does not dyme an operation for coametic reasons but tates that the cornetic esults be been very good

The technique of operatio is given briefly as follow

The patient is placed upo his unaffected side the the affected thigh slightly flexed. A longer d malinemo about cm long is made thr ugh the skin and muscle expoung the outer surf ce of the knar \ broad chief is then polied t the bone to as t make an blique line of fracture ext nding en the anterior spect posterior and distrill.

The upper extremity of this cut correspond to the apper extremity of the sectabulum. A complete option in performed. When the fracture is completed to the complete of the sectabulum and the sect

plet the lower fragment is manipulated as in the reduction of congenital dislocation of the femur by the cloud method. After the fragme t has bee theroughly believed it is forced in and and upward tato the acet bulum \ tures are polied the freguents being held in position by the beluction of the lower fragme t. The limb is then placed a plaster in abduction at 3x degrees

The patie tim allowed out of bid in the week and may then begin stands a or walking with crutches After six eels the plaster cast is cut and knee movements are begun. The cast is remo ed t the end of three months. The fter treatment consists of massage and acts e and mass

ment of the pelvi trochanteri murcle Process I swing M D

Deutschlaunder C Th Treatment of Old Consenital Hip Deslocations (De Behandlung der erakteten angeborenen Hueft errenkungen) Denturke m d Bakusake o xhin 476

The treatment of old congenital dislocation of the hip is difficult because I the complications which develop not only in the hip joint itself, b t also in the back and the loans Friquently highgrade lumbar lordons is present especially in cases of bilateral hivation. Ande from purely symptomatic and mechanical measures, such a massage hot air exercises a d the use of belts corset et the treatment co sists of non operative measures to effect reduction hich are applicable t a small group of cases and operative reduction group. The thor discusses these methods of treatment briefly and then speaks of the radical operation he dvanced in 901 in which the diopsous is utilized in buttonbole mechanism In thirty cases operated upon by this method there was marked funct onal and anatomical improment

On an anatomical basis, cases must be divided into t groups those a th complet concentric implantation f the tendon a d ormal motion and those with eccentric tendon implant tion and somewhat limited hip motion I two-thirds of the cases of children bet een 8 and 5 years of ge a concentra tendon implantation was complished

I those more than 5 years old only eccentric implant tion could be complaised. So far there

has not been single fatality

The radical operation is senious p ocedure but ts danger should ot be overestimated. The best treatment is the bloodless method of Lorenz. carned out t the proper age LOSTTU (7)

SURGERY OF THE BONES, JOINTS, MUSCLES TENDONS, ETC.

Girdlestone, G R Some Point in Reconstru the Surgery Prestit ener 9 cl 456

Cases of injury due to a wounds or accidents m y be di ided int () those i which treatment is ob south needed, and () those in which caref] consideration is necessary t determine hat if my treatme t should be given

The utbor cites the case of man who had good me of thumb ad to 6 gers of hand which was partiall paral red Although some improveme t could be hoped for free operation and treatment requiring year time t as considered best to do nothing as the man was able t perform his work

well in spite of the paraly are

I determining what to do in given case the author suggest that the surgeon put to himself the following questions: () At what it you aiming (a) How far wally ou succeed. (3) Is it worth white. The result to be scheeded as manuum function.

Form is of secondary importance.

I judging and friest of much putents, surgical knowledge, technique on builty are necessary and in sidution. () a stud of the one-from all angles, including the patient's occupation (s) the power to recognize the research points of distribity back recognize the research points of distribity back produced to the probable end results of the various methods of treatment as regards the patients a dis-

mat health ctruty freedom from pain, and fitness for ork.

The p tient is better able to decide ith regard it treatment if he reshies the tedium of the various tarcs and the end result expected.

Mance Hower M D

Schwar, Z. The Anatemical Processes I the Registration of Tendons and in the Flastic Repair of Tendon Defect by Tendon, Fascia, and Commentive Tenus, an Experimental Study (Urber die anatomiches Vorjunes bei der Schwarespection und den Experiment bei der Schwater auf der Schwarze und Schwarze und der Schwarze und gewehlt in der Schwarze und der Schwarze und gewehlt Tendon und der Schwarze und der gewehlt Ten der Schwarze und der Schwarze und der Zuber Gehr of deum de

The a thor first gives an interesting historical review of the question of the healing of rendon wounds. As the result of recent investigations Rehn claims that function is necessary not only it maintain the table of the transplanted rendon

thaue, but ho for the regreenation of the tendom of tendochil thance. Bier on the other hand assumen it the limite cause of epitheration is benical stim lation due to homones which senther retain from the tendom stumps. According to Bier the tendon thance has an unusually great capacity for regarration.

By means of experiments the tho ttempted to determine whether a tenotomized or partially or completely extirpated tendon regenerates ben the peritenon is intact or when it is completely removed I outsteen superiments inwared the first mention

the following manner

When the printeon remains unixet replacement topse forms in the defect, then functionally takes over the part of the defront tendon but in the course of time in contrast it normal tendon be comes stretched, so that the function of the foot gradually becomes power. The tendon cells then selves are in no concerned in the growth of the new tendon the area formation of the tendon originates in the peritann In t. t. there months the gray formation is completed. The new times never the gray formation is completed. The new times never the gray formation is completed. The new times never the gray formation is completed.

shows the silvery glaten of normal tendon. The

new there is a replacement tensor hick is on trolled by function. There is no true regriseration

In the second large series of expensions in peritation was carefully removed. As result, connect if a transit, connect if a transit, connect if a transit was formed which consected of large wavelet, nevers, and wascalar connective tasses transionneed into tendon like strands. When has transit connective tasses was formed in the medion defect by granulations just as near seven would. A satisfied examplement of their lake strands of the extendent of their connective connective reperturbing was sold as one even in the former experiment, was set been different indicate the great superuse. The experiment is the condition to the present cause in present a document of the present cause. I present a do not have the present cause in the final present in the condition that the present cause in the final present cause of the condition of the present cause in the cause of the c

ot know their nature. The appendix show also that there is no transformation of connective thanks into trace tendent state the newly formed tendent and remains, replacement tenden. The author gua emphasized

the f ct that it is function alose which can produce tendon like these from connective tuess which

ill serve the purpose of a replacement tendon The rest of the article treats of transplantation experiments with tendon tissue. It is important that the peritenou be transpla ted ith the tendon # the new formation of the tissue proceeds from the perstenon after it has become accustomed to its new surroundings. Here again, function plays an im-ports t part as t readers the newly formed times tendon-like The transplanted tendon strell under gors destruction and is replaced by cicatrical the majority of cases becomes tasue hich. firmly united with the sucroundings and excludes the possibility I function I contrast to this, the transplantation of fascia by Kmchser's methods to be highly recommended. The transplanted fascial tuspe is for the most part maintained and the fastus remuns glattening Very good replacement tendons m — be formed from such fastual tasse The use of ther connective tosus for tenden re placement in the form of braided tufts of connectiv Koca (I) lustne u less de suble

Iseka, G. The Firefilms of Bene Cavities with Free Transplants of F t (Los Flowberger & Knochrahochles mu frettra-planterien bett) Drutte Timb f Chr. o claus 180

A minia operation was performed in tweat) two
cases t the Garré clinic Krabbel reported ten of

them is 1913. Of the remaining twelve cases seven were treated more thoroughly. The result varied

In general, it may be said that replacement f the suphated fat tessue by boue does not occur when the coatoperature course is completely reaction less, but that slight inflammation causes complete dauppearance of the bone cavity after a time if the play shitset. The plugging was particularly useful on cases in which neighbours joint was opened during the operation or it was necessary to remove parts of the yout.

Lemperg, F A Method of Facilitating Plastic Operations on the Deltoid Muscle (Zur F lecistering der Deltoideundastik) Zentreild f Chr q abr. of

The outer third of the clavici having been resected, the portion of the trapezous muscle which m here asserted is freed and drawn over the cromion as far as the middle of the deltoid muscle where t is secured with salk sutures. The persostest shorth of the clavicle is then joined to the periosteum of the humerus. The mechanical result if the resection of the clavacle t lengthen the lever-arm of the mescle as such as t suggest that in simila cases shortesung of the cla sele might be freely carried out on principle even when there is no limitation of motion in the sount. There is deformity d. e.t. projection of the scapula. In the author opinion farcial fixation of the scapula to the opposit side night give still greater strength by drawing on the sormal shoulder VALENTIN (Z)

Schulz, O E New Arthrodesis of the Shoulder (New Schulterarthrodese) Revision in December 9 1, 5

The author has devised the following method f

arthrodeses of the shoulder joint The skin incision is made from the middle of the space of the scapula to the art culation f the acromson process with the cla sele nd from here entally to 6 cm belo the cromson process. The expense of the jos t as then opened by soughted I mercon and the head of the humerus is luxat d The head of the humerus and the glenord on t are denuded of their cartilaginous covering and the subacromual burn is excised With rasp the periosteum is reflected from the uppe surface of the acromion process over an area 2 cm sde 5 cm long and also to like extent from the unde entace T parallel cuts re made in the head of the humerus, extending from the postero lateral t the stero-messal aspect. A two man with blades apart is used. The segment of bone limited

as a part is used. The segment of bone limited by these to cuts is cut out. the chasel from its base at a depth of 19 cm. It this furrow the straped acromion is inserted whereupon the herd of the branerius comes i be in the glessod cavity.

Immediat ly after the oper ison the scapula fraily mailed with the humerus could be moved up and don

The advantages of this method are

t The freshened surfaces coming into contact are considerably larger than those formed by other methods

The musculature of the shoulder girdle remains entirely uninjured—the trapezius is bound strongly not only to the acromion process, but also to the humerus

3 The desired degree of abduction elevation, and not tion for the arthrodesis can be blained by varying the length f the incision in the head of the humerus kiros. (2)

Wreden R Partial Endoneural Resection in th Treatment of Spestic Contractures of th Hand in Infantile Hemiplegia (Partaille endoneurale Resettionen zur Belandhung spartacher Contracturen der Hand bei uf tier Hemiplen) | kendt d. R. Chr. Purspill-Ger. Petront d. 9

A ting upon the assumption that spraticity and loss of function of the hand can be traced primarily to proponderance of the motor impulses in the medium and nina nervies over those in the radial nervie the thoritempted so to reduce the tension of the transverse incusion in the former that there ould be no destruction of them to rand persons them such as occurs in Stoffel operation. The media and linar nerves were exposed in the middle thard of the forestim, the personnum was advised, and ciliptical pieces 5 them in length and one half the diameter of the erve in width, were reased from the nervie trans. The all tim the perioducing is the colored with fine catigot.

Immediately after the operation the hand as sumed position mid y bet een flexion and extension. In the course of two weeks curve flexion again piperied but during period of beervatio ffrom six t zen months t did not reach ta former

From set '(em montal a cus not steen a sjormer tright of there was no essential improvement in function. With the exception of less acute perception of the property of the steen of plan in the ultrer areas of the important of the property of the steen of the steen

The objection made by Gugoloff in the discussion I this paper that such elliptical creasions cause serious changes, is not I much practical importance as the defect issule is small of the inter-ention too concervative. On the other hand, regreeration takes place slowly enough t permit an increase in function of the opposing musical.

R kitski tated that insofar as the motor fibers are sacrificed, Wreden operation is more radical than Forster's, since the paralytic components increased.

Greioff commended Wreden's purpose to strengthen the opposing muscles. By w y of precaution to ton he arned of the temporary character of the result of the possibility of neuroms formation.

Here appressed himself as gainst W eden's propoutson because the motor fibers are destroyed

\text{VOY DER OFTE--EACLEY (Z)}

Rahm, H. The Morastin Plantic for Contractures of the Fingers (Die Morestusche Plantik bei Plagercontractures) Beste B Cher qui cxxv.u, 14

The procedures devised up to the present time for the treatment of contractures of the fingers are not satisfactory. The tradion transplantation of von Harrier is too complicated, the all tendons of Lange often do not heal in a distanticulation is a deform ing process. Morestin's procedure is as follow.

The were abunda t skia present on the flexor surface of the fingers, which may even form w b is split longitudinally int. two layers and transverse increpons are made in both of the folds of the web alternating right and left, until all tissue hindering the extension of the finger has been divided. If the finger ca then be completely extended the small transmiler alin flams formed are alternately refeeted back over the wound surface so that truste serrated line of incision is formed. The flaps are fixed in position by few satures A dressing is then applied and the finger immobilised for bout eight days At the end of this time hand b this and fre quent motions, first passeve and then active are begun If it is necessary to divide tendon which has been comeshed in the cicatricial masses the finger is grasped by a neighboring finger during closure of the fat and carned along into the palm of the hand

Three cases in which this method was used successfully re-reported Lournan (Z)

Schulz, O. E. Peri Articular Firstion of the Knee Joint (Parastikulars Firstion der Knegdenk) Case lei Leit 9 lu, 926

T immobilise the Lines point in cases of completparally as of the legs, the orthor procreds as follows: A longitudinal meason: 6 t so cm in length is made on the fanor sade: f the knee point. The soft insues are incused dow. t the periosterms f the femur and tibla the fibreon capsule of the lose yield is divided, but the synowed membrane is cardelly avoided. The pernostrum is facused and a strug or wide and of com which is deviated. With cheek, a grow on which and of com deep is made in the femur and this along the entire length of the incision. A graft from the thina, corresponding in slape as lead in this grove and the pernostrum in different capsule are said tred over it. Another splint from the this a policied in the same as when the consideration of the placed of the same as when the consideration for the law.

that the raiddle portion of the fibral as utilized only on the lateral aspect of the knee joint. I every case firm kylons resulted and as still present an months later. This method gives firme and more latting results than associations by mean of tendon firstions. Even (2)

Epstein, G. The Question of Operative Procedures for Congenital Deferralities of the Feet Car Frage binger English to congenitals Fundformatartes) Ferhand d Run Chr. Proof G.

For the correction of chib foot Epstein favors atyrocal werler extradors. I the chargeson of he namer Albrecht stated that those who adhere to bone operations in cases of club foot underestimate the element of traumatic osteoporous which mikes it possible, when limited partial correction has been achieved in the second stage to obtain complet correction with the greatest case to wreke later Orten Sacken stated that the indications for the treatment of chub-foot formulated by Kocher forty four years ago re still correct H faid down the rule that tenotomy of the Achilles tendon should be resorted to only after antisfactory adduction has been obtained and suprnation still makes t necessary Pathologico anatomical studies demon strate the impossibility of obtaining a quick care in such complicated deformity I the orthopedic classe of Turner the difficult refractory cases are treated by edge excusion supplemented by our rective orthopedic measures

TO DEED CONTEN SAC EN (Z)

SURGERY OF THE SPINAL COLUMN AND CORD

Hackenbroch, M. Congenital Curvature of the Spine os an I tra-District Deformity of Weight Bearing, (Bestung are kassealt for a supriorsea Raccinguite crimenuming als infrastructurer Beiset ungerieformiset.) And fortion Unifold Chequ xx, 566

Congenital curvatures of the space are graerally duraded, according to their closely into those modescene organization of the closely into those modescene organization of the state are intra-modescene organization. The latter are intra-modescene organization of the state of the confidence organization organization of modescene deformatises of weight-bearing of modescene organization of the confidence or t

every habit. I scolious retarded congenital form. The their reports three cases of congenital curvature of the space, is cases of scolious and one case of k phones had were produced entirely evapencially by intra terms pursuire. There error boornal formations in the vertebee, All of the three cases ere further characterized by resultance to treation it in the plaster bed. Basica (2)

Mixter W J Fracture of the Spine with Cord Involvement J Bax & Jet 1 Surg 9 1 221

The indications for operative interference in fra t re of the spine cannot be delimited sharply. Lara inection. Is indicated in injuries resulting in discrept to the cord either through crushing a thout complete everence or by intra or extra-dural harmorrhage or cedena Inmry of the cauda equina should be treated in the same way as injury to permiteral nerve, operation being performed if there is dis-

terbance of function Fracture of the bony column a lthout cord invol e ment should be treated by the application of bony what or plaster lacket or both If careful mapping of sensory changes within two or three hours show mcreasure involvement of sensors function opera tion is indicated. As shown by Allen time is an im portant factor and definite course abould be supped out at least within the first twenty fou hours. It is only in lesions of the cauda equina that late operation for cord damage may be of som then showed also that when does were subjected to

dentical creating injuries of the cord those t exted by median longitudinal section within a few bours of the inpury to combat the orderna recovered function hile the others did not

The laminectomy performed by Mixt is that advocated by Gaeralen. The muscles of the back are desected away from the spinous processes and lename on one side only. The spinous processes it. then cut away from the lamine 1th hea being left attached to the muscles on the side. The liming are removed with rogulars and all bone chaps are preserved for f ture use. The arrows procedures indicated in gi en case su h as the removal of clot or in driven fragments of bone are now carried out. The art culations, if not alread destroyed are crushed and bon chips are laid between the tumps of the lamine on both sides The muscles are sutured to the interspinous ligament

and the fascus and skin are closed D TTO R TELEON M D

Turner H. An Unusual Case of Typhoid Spine with Symptoms of Spinal Cord Affection Bru M J 9 3.

Involvement of the spine in the typhoid process probably takes place during the flourishing period of the ducase, and doubtless is not very rare. The symptoms of this complication may pass unnoticed on the background of the gra e picture of the illness Typhord spondylitta is form of subscut in funmation involving the periosteum, legaments, and ertebral articulations G bary term, 'peri

spondylets, is the most suitable t describe the pethologic changes Chedy the posterior I teral pa ts of the lamine

are involved, their mobility probably influencing the exacerbation of the process

The pecture of typhoxi spondylitis as revealed by the X ray is very characteristic. There is nor towner or partial disappearance of the interver terral spaces with lateral protresson of the contigu edges of the bodies Dense vertical shadow

en one or both sides of the midline eprod ce the many bridges of newly formed bone by hich the posterior parts of the column are fused together

Occasionally there is a ambotic curve due to asymmetrical dignosition of the disease

Clinically the symptoms of infectious spondy htts differ markedly from those of Pott disease Acut excrucating pain in the back is the chief complaint. Digital pressure reveals intense pain in the lateral parts of the spane. The soft tissues of the region involved may be thick and ordematous In intermittent fever generally accompanies the initial stages of the process

The involement of the spine in the typhoid process is frequent integrant part of the disease the infection persisting in a latent tate awakening of the process w generally brought bout by trauma. Therein lies the explanation if the development of typhoid spond his fter recovery from the original disease

The author reports a case of typhoid spo dylitis in high there as suppouration. This is the only positiv case know in which suppuration compli-SAMUEL LARGE M D cated the sound affectso

Hoffmann, \ A Propping Operation on the Vertebral Column Thoughts on the Opera-tive Treatment of Spondylitis (Ene Stocta-pfeleroperation der Warbeissette Gedanken sur operations Rehandlang der Spoods hits) Zewirelli

f Clar 9 nda. O both miles of the vertebral column rib with neposteal and vascula flans is placed in the trough over the joints of the transverse processes of the ribs to form bony union I addition a dorsel prop is raised in such a way that a free rib transplant is laid int the nice bet een the arch and the STREETS DIOCESS

The operation is carried out in two stages, one side being perated on at time. The use of anies these and the local application of adrenalin t prevent hamorrhage from the musculature ad nerves are advisable The vertebral column does not lose to anatomical support through the removal of the ribs Book (Z)

Leri, A. On Lumber Arthritis. Am J Chy Med 0 3 HH.

By lumbar arthritis Lett means the localization of chronic vertebral rheumatism in the lumber erte bra: This affection which was frequent during the war produces symptoms very different from those bothert recommend as characteristic of chronic vert bral rheumatum

The patients are usually between so and 40 years of ge and enter the bospetal o account of lumbaro or sciatics. Usually this condition is unilateral, but it may be balateral or alternating Complu the made of sharp pain both continuous and paroxysmal. in the lumboracral region, and often also in the buttocks and thighs Sometimes the pain is limited t the calves

The postur is variable. Only rarely does the patient stand erect. As rule he bends his body form rd and holds his knees flexed. If may also bend either to the right or to the left. Some times there is a slight polifices, thost actual orderin, redocus or heat to the lumbur report. The boop protobernous are mently obliterated. When the patient bends forward there is an accentation of the line of the lumbar spaces and bove this a constraint of the lumbar spaces and bove this a constraint. This sign is almost pathogonomics. There is title on no contracture of the lumboascerd muscles to the latter of the lumboascerd muscles.

When lying extended on bed, the patient is able t stretch himself with perfect case so that his head, nelvis, and feet touch the name of the bed

The roentgenogram above sinking a transparency and especially an excessive grooting of the ertebral bodes with enlargement of the superves and inferior surfaces (torther on dishele).

Sometimes a tapering of the surfaces and a sort of purrot back is noted inch is very characteristic and sometimes more or less olumnous nodules of nec oranfaction, that-forming of the cartilages and abnormal undulation of the critical borders are found.

Anatomically there is an esteophysic proliferation.

Frequently this is cross-shaped

The malady progresses by repeated tracks, each lasting to to ten months and followed by apparent by complet crimical recovery.

The discount is articlarity and does to have not a complete control of the control of th

no relationship to it whatever

The discuse is evidently not due to kee, taker culous, or genorthess. Rhisometic spondyloss has

In Lern's opinion the causa to be found in the bnormal living conditions to hich soldent are subjected in active warfare. Often they step as damp ground or in the ware and in the transless they rest their backs against freshly turned early Frequently the muscles of the back are circums.

requently the muscles of the back are exervedsearted by long marches and the carrying of heavy packs. Temperature seems t. pl.y bitle of setprit.

The diserve can be readily distinguished from functional disorders by the default deformity and by the N rs. furchings. A knowledge of the sature

of this condition and its mode of volution is of its portance with regard to medico-military decisions. The treatment is the diministration of saleyis.

The treatment is the diministration of saleylate f sodium and immobilization. The author share the postural and by changes by namerous philo-Clayers P Asserts MD.

SURGERY OF THE NERVOUS SYSTEM

Pussepp L. Transplantation of Spinal Nerve Roots in Flactid Paralysis (Debr Transplant Ion von Rusckenmarksparveswersch bei schlaffen Lachtengen). For ort 9 4,442

Property andertook to transplant the perve roots in four cases of maintile paralysis in thich man of the muscles, for example f the whole lower tremity were paralyzed and in which orthopedic procedures were meffective. After laminectomy be cut through the roots of the second, third, and fourth lumber and the eleventh and twelfth dorsal nerves and sutured the second and third lumba nerves t the eleventh dorsal and the fourth humbar t the t elfth dorsal I t cases movement could be ob served along the proviously paralysed lower extremities and the circumference of the extremities was increased. In the cases in which the lears had been paralyzed two years or longer the results were uncertain In one case the injury f the cauda count, Pursepp satured the central portion of the cauda equina t the t elith dornal nerve. After two months, incontinence of unne cessed Pumero behaves that restoration of function undoubtedly takes place and that technically the operation is enturely practicable Maximumore (Z)

Lehnson, E. P. Per Artschal Sympathectomy 4 Swr 923 luxvii, 30

In the dog, the pervisionless as mpathectomy of Lerithe does not result in the physiological changes is the extremity noted by Leriche in clinical cases. \associated associated from proved total sympathectomy does not affect wound kealing.

H A McKnowr M D

Habitus A. F. and Christopher, F. Perr-Arields Sympatheticony J. In M. 4s. 14, 10-7. D. vason of the cervical sympathetic serie cased datason of the blood results of the cro on the standard of the cross series sade. Stimulation of the perpheral end of the recursion approximation of the perpheral end of the recursion approximation of the perpheral end of the sympathetic nerves pass shrough the adventure of streets in form pheroses in the parts media streets in form pheroses in the parts media.

Lerchs observed that puching the extratal lays of blood vened causes the exsel to control, arrest its pulse and decreases to sure If the other targets in one fourth or one third the normal way then three to fifteen boom secondary sum agrees () elevation (I the local temperature from 1 to degrees, group subjects sensation of heat () elevation of the local temperature from 1 to degrees, group and () an increase in the simplified of the oscillations. After per attend sympathete tomy the studiest restored in the sub-levation at transmissible coming attenuated from the 4th to the sub-

becoming attenuated from the Afth to the act and disaspearing after from three to four In Lenche operation the artery is soluted in St. can the sheath if she shed, and there was a standard belt with Linke or the sheath of the standard sheather than the standard sheather that the standard sheather than the standard sh

on stump, one case tropine alonghe after nery

section, the cases a sore on the lief after medullary party one case variouse external, one case trophic daturbance after frostbate one case spannoodic party say, one case it modify the presenter of the cordroopsnal fluid, three cases Jacksonian epilepay too classe goater one case intermittent claudica too, one case and ervitormolalisms, one case

In Lenche opinion, peri arterial 3 mpathectomy is often very efficacions in the relief of pain, will manner symptoms of muentar hypertonia, and is beneficial in trophic disturbances leading to ulcera

The authors report the employment f pen uteral sympathectomy for endartentia obliterans smoonted th pain and umbuess of the right foot mapatient aged 55 years. The pain radiated to the call of the leg and the ankle was weak. The patient was unable to walk more than half block at time For four days and nights the pain becam so ex crocusing that sleep was prevented. The right foot as pamful when manipulated, and t a less extent the right calf was painful on palpation. The urme matamed faint trace of albumin and few hyaline cests The Wassermann test was egative The patient was not benefited by treatment with Locke' solution, sodium citrate, potassium sod de sodana bromide chloral hydrate mtroglycerme, th) read extract sodium nitrat

Pen intensil sympathectomy was done on the mid-femoul arrey t the juncture of its middle and lever thirds. The adventure as a tripped completely off for a distance f com. Department was dracking from the hospital the thirteenth day after operation. As a rentil of this treatment be able to work on his feet for nearly twelve board by at eather it, restaurant, and can sall, mile wince. H has only slight pain when he salls mile wince. H has only slight pain when he walks mighty and the numbers has practically dispressed. The leg is warm and tactil and thermal formunation is ormal.

WALTER C BURKET M D

Callander G L Arternal Decortication 4

Londe ha called attention to certain definite results high follow the version of the sympathetis nerve permans which he in the intimat absent and store large blood casels. These tructures are supposely removed from the femoral artery house. The successful results in cases of performing above the foot, and less successfully performed from the femoral store that alone of the foot, and less successfully results in cases of performing above the foot, and less successfully successful results in cases of performing the successfully as a successfully successful the foot and less successfully successfully successfully successfully successfully successfully successfully successfully successfully succes

The main titrail trunk is exposed by the chancel loss of scores on some considerable distat or prominal to the part affected. The cet mail fibrous sheath cover set the artery as then insued for distance of 8 to ce and the artery with the more and more insued the thin and it is scheduling the respect. This was about his of the distance of the artery is prayed with tissue forceps and insued dentity to the coals will Truction in maintained denty on the coals will Truction in maintained dentity on the coals will Truction in maintained dentity on the coals will Truction in maintained.

on one of the lips of the sheath of filmy timese this isolated, and this tructure completely freed from the artery over the length of the income with a kind r line scissors. In this manner the artery is tripped of its external coat, together a th the fibrous trains adherent to

The immediate consequence of the denudation of the artery is a diminution in its caliber which progresses until the artery assumes the appearance of small whitish cord suggesting a cryetrumk

Lench constantly found postoperature crease in the surface temperature data it the decortication. H stated that this was often one on the evening of the operation but more often on the following morning. Untilly bowever t occurred thirty as from siter the operation and marked the thirty as from siter the operation and marked the temperature of the following the fo

Lenche reported also constant postoperative use in the systolic pressure listal to the point of operation this has not been enfied by the a tho Lenche has cured traumatic disorders of the B basel. Froment two in which there are contra-

D beaks Froment type in which there are coutra tures and parses and the complete picture may present mucular trophy exaggeration of the love crits, changes in the cutaneous referes, and disturbences in objective and subjective sensibility. Visio motor secret r₁ and trophic disturbances are noted in the bones, skin h ir d hauls

Anothe rare but well recognized clinical picture which has yielded to arterial decortication is the causalous of Wei Mitchell

Certain ulcers which occur in imputation timps over areas not subject to prise and which are not caused by infection are ery effectory. According t Leriche several ulcers of this type have closed promptly after decortication of the femoral artery and their scars have remained sufficiently resistant to be a the use of stoparties.

The uthor reports a sense fiten iteral decorts cattons which were performed on an aptients in one case three arteries were decorticated for disease. If three extremities while in another the operation was performed on its arriers for disease.

in t extremities
Group neduded patients in whom the rieral
changes the time of operation were thought to
paymonder rather that oblite for sevelenced by
the presence of palpable perspheral pulsation of the
arter. Group incl ded cases in which an oblitera
to arteritis seemed to be the most important facts
and to arterial pollation in the affected extremities
was noted. Croup 3 included one case in which
the cause of the pain could not be determined.

In three cases in Group—no improvement followed the operation

In the second group of cases one definite cure was obtained. This patient had an ulcerating angrene of the dorsal surface of the middle toe of the left foot. Several weeks after the operation the gangroop dis present and the sloughing healed into resisting

In the one case of Group 3 operated upon for unaccounted for pain in the thumb the pain disappeared II A McKapper M D

T vtor TV J The Sertical Treatment of Chronic Sciatica. A leri II J & Med Rec o crn.

The surmed treatment of chronic sciatics de stribed as based upon an article by Renton Ninety nine cases he been treated in this manner with successful result in practically all. The operation is t be used only in true cases of scutica and after medical treatment has been tried. If the sciation is due to a lesson of the spane sacrum, hip joint, or other structure, these conditions should be cured In certain cases the pain is due to a perinceritie which often is combined with neuritis with adhenous

blading the nerve to the surrounding theres. It is this type of case upon which the author operates A classification of the cases based on the chir cal condition is as follows () cases in which pain occurs only during exercise (2) cases in which there is some pain during rest and intense pain during

evercese (3) cases with indefinite and irregular pain either at rest or during exercise In cases of Type 1 m which the inflammation has

subsided but adhesions are present the author operation should give cure in too per cent

The operation demands free preson from the sixteal fold downward, expound the nerve as far as the extent of the pain. The ners is booked up with the finger but not stretched. The dhesion surround

ing it is carefully desected a ay either til the scusors or a scalpel, or th grows and the faces No nery branches are cut. The nerve is they care fully returned to its bed, the muscles are admited in place, and the skin is sutured. The patient is less in bed three weeks and discharged at the end of four

The author reports nine cases Eight ere completely cured. The month, which as recently over ted upon, a still in the convalencent stage Mancie H. Houart M D.

Semmer R. Cavernous Angiomats in the Perioderal Nervous System (Ueber ka tracese Aspune am pempheren Nervensystem) Destache Ziele f. ore chrom, or

Although cavernous angiomata are found frequently in the central pervous system only two such neoplasms in the peripheral nerves have been reported. The author reports a case in which the tumor had its origin in the blood vessels of the

porterior tibul pers Augnocavernomata originating in the perspheral nervous system on e their origin to a malformation of tissue, viz strangulation of an embryone viscular branch in the endoneumen and permeuruss. They are of interest only because of their situation P thologico anatomically they are ordinary appocavernomata. Their rarity is due to the extraor dinary regularity of the natranceral blood cost

formation which makes strangulation of the cape larges extremely difficult. The excochlestion these tumors is complicated by their intimate connection with the nerves, hich usually most be Hirm (I) resected

MISCELLANEOUS

CLINICAL ENTITIES-GENERAL PHYSIC-LOGICAL CONDITIONS

Glass, E. Tiesus Necrosis Dus to an Ink Pencil (Zor Tintenstift Gewebenekrose) Dentsche grei Bedaucht as rivne, 181

Erdkeim reported nuncteen cases f turns necross caused by ink pencils. In this article Class reports two cases

Four weeks before he consulted Glass the Cam patient had had fall on the forearm. This was followed by swelling which did not recede. When an incusion was made a violet fluid escaped memoral wound closed, but four weeks later pro trumon as large as half walnut developed on the forearm, there was considerable swelling of the sur rounding tristies, and the patient's general condition became poor Methyl violet was demonstrated in the bandage materials. The patient knew nothing of an injury from an mk pencil, but on examination of the wound broken piece f such pencil as The entire wound found in the necrotic cavity cavity was thoroughly excised. Uneventful healing resulted

In this case the broken-off piece of mit Case pencil was removed immediately but the injury caused necroms of tustic, lymphanests, and exten oration of the general health. Healing followed opening and debendement of the wound and the pplication f a per cent alcoholic solution of

trypadavin The injurious factor is beheved to be the methyl violet. The tusine necrous tends to spread. The effect upon the general health is striking. The SCHULLET (Z) process of healing is ery slow

Von Balogh, E. A Contribution to Ou Anowische of Norma (Zur Kenntus der Normanischeum)

Here seed Il'obseche 911, hurs, 74

thor gives brief report of thirty-ta cases The of norna observed in the course of con postmortes examinations carried ut during the past three years in the Department of Azatomy t the St Ladulus and St Gerhard Hospitals in Budspest A high percentage of cases coming t topay were those of undernourahed children from poor families

The majority of the subjects were under 4) cars of age, but the disease is found also between the right

centh and t cuty fifth years. Facuty t f the subjects were girls. The localization of the condu ton was variable but it involved Imost exclusively the large ornices of the body and the surrounding trases. In fifteen cases it remained a completely soluted affection of the cheek. Measles was most often the primary disease (t enty two cases). paramonia and infectious intestinal catarrh were eccasional causes

The striking feature in the histologic findings stade from thrombosus f the blood vessels and changes of varying degree ending, in the most wiere cases, in advanced gangrene was the failure a defensive reaction in the appa ently intact

admorat trans-

B) use of the original bacterial flora from cases of some (a mixed infection of sparoch tes and fund rm bunlh) the a thor succeeded in prod cing changes in excised muscles which greatly esem bled true noma. The presence of fusiform symbaces suggests weakness of the cells brought about by the primary disease FLORENA

Paul, M. Observations on the Ornin, Causation and Treatment of Rodent Ulcer Val J. destroke, 9 3 85

I lake the etiology of rodent ulcer is still indefinite it is a significant fact that although the lesson may occur is any purt of the body turnally ppears on the face, more especially its central horizontal third The sites of predilection are the eyelida especially the namer and outer canthi, and the nasofacial grooves. As this region of the face is also the sit of predilectio of ne old growths of an embryonic battere it is possible that stim h or irrit tion of uch tames may lead to the formation of rodent ker 'et only ge but also the actime ray of the sun may be factors in the production of etrograde dans.

Rodent ulcer may armse from the basal cell la of the epidermis or the corresponding portso | f th pale achaceous structures as nevoid growth in high the germ or seed is present in the basal cell layer and hes dormant until acted upon by certain stimuli It any denelop also from immature pilo sebaceous structures or from another nevoed growth uch as took The neoplasms vary in appearance depend lay on whether the cell rest is destined t form hair folicle a sebaceous gland or a combination of these When it is destined t form hair follicle, the growth a characterized by closely packed cells somewhat tadora and shuply circumscribed masses, a marginal palmade layer show g cells of spindle there. Schaceous gland structur is indicated chine all he large reddish masses (usually on the nose) nd hatologically by reticular arrangement. There is also a combination of the solid or budding t pe th returniar arrangement

acoplasm may originate in the epithelium of to sebaceous follocle or the basal portion f the sur ice epidermis as the result of traumatism or the effect of the actime ray of the un

The treatm I consists for distron with radium or the \ray and excison Radium i adscated almost all cases and go es good esults acept where bone or cartilage is n olved. Diathermy may also be of service but accomply her little that cannot be achieved with rathem. H W INK MD

McConnell, G A Case of M Itiple Myeloma 1 m J M Sc o d

This case report is particul rly interest g that the multiple my lomata occurred in patient preenting clinically pseudo philit Postmortem microscopy seemed t prov the d g nors of multiple in cloma although the patient negro to years old, had I ted that he had both chancre and gonorrhors that years previous! the sorta as dilated pd calcareous the pupils were irregular and unequal | d had reacted alumently t hight, a slight tracke I tur had been noted soft areas were found in the terum cla scles, humers, kull, cervical ertebræ ribs, cla icles, scapulæ, femora and th h er as planned

No mentio is in de of the treatment of the chancre thirty years before but repeated blood Wasserman tests one spin's Wassermann test, and the Lange colloidal gold test were negat Jones protein tests were repeatedly positi e, thus dding weight t the differential alice of this test in

the presence if myelomata

The extens: distribution of the t mors, which was typical and their characteristic biorptio of lime salts from areas I the bones in ol ed made t possible that the calcareous deposits in the elastic membrane of the sorts and large arteries the lu gs, spleen and pancress resulted from derangement of the calcium metabolism due t the excess of calcium all ble from the bsorbed areas

The patte it died eight mouths after the beginning of his disability. The urine had cont med large amounts f lbumi for some time previously the k dney contained calcurrous deposits and were

found scienous and fibrosed

Microscopicall the tumors showed to types of cell-one ha ing round or oval nucleus staining deeply and surrounded by narrow no gra la extoplasm and the other larger with Jurger nucleus, and surrounded by large amount of cytopla m which preared clouds Mixed with these cells wen mult clear megalaryocytes and monon lear cells with grain lar eos nophilic protopla mi

Dryon R Centr M D

Bierich, R. The F nction (Connecti Timus in the Experimental Production of Cancer (Leber die Beteiligung des Bindegewebes bei der experi-mentellen krebsbild ag) trek f palk (mat Livre. CITILI,

The question whether arrenic, lactic acid, and the 1-ray can mittat or cause an increase of defin t pathological growths is considered three experiments. For the purpose of this t dy e peri mental cancer produced by t r was chosen

It was established that through the administration of menic, and later of a combination of menic and tar a distinct del y in the appearance of benum superficial growths of the enithelium (an Agrage of eights day) and of mabgnant deeper growths (un

erage of one hundred oil thirty-one d) was brought about Neither an increase in the virulence of the transplanted tumor nor an acceleration in the formation of the experimentall produced turnor

resulted from the use of lactic acid

The effect of the \ ray ere the same as those poenring feer amenic and in the first tage of t cancer name! racilize of the epithelium, redem tous breaking down of the skin and subcutaneous tissue and, later marked increase in the clastic fibers, execually in the capillary body. In contrast to changes caused by the py typts named, those occurred in a few mi utes

The increase of the elastic fibers is caused by a saturation of the indifferent fibers with elusion their reseperation in such short period of time is precluded. This effect of the \ ray encremonds t the first stare of tar- nematode ad X ray cancer hich the clastic fibers or greatly sacreased in number as long as the epsthebrum has not grow unt the connect tissue I the second tage ben this is the case, the lastic fibers are limost entirel absent. It may be assumed that solution of the

electin saturation is caused by the concerous tissue stages may be recognized in the charge in tumpe resulting from the use of tar the \ ray and amenic. In the first there is an increase of certain enabelual functions. Accounts aving this there is a increase in the formed lements of the onnert twee especially those adjoint g the crathelium I has depends upon a physiochemical change in the protopleses of the connectry tissue I the second di metrically opposite development takes place, namely breaking don of hat as presously accomplished. The elastic fibers gradually shrink, the connective-tissue fibers are ereath twisted or are separated int thick cylinders. This also is caused by change in the physiochemical structure brought about by caster

The fact that irritants such as tar the \ ray and nerhaps arrenic, influence particularly both the enithelium and the connectra tueue is addition to our knowledge of the development of Broome (Z)

emenmental caperr

Lang, F J and Krainz, W Cystic Osteoplastic (Arcinema as Compared with the Scirrhous Form (Leber des cystreche ostroplastreche Car coom by Venduch su senor verdecatenden Form) Freshfurt Zixin f Pala 9 KINDLE COS

This article reports in detail t causes of outen plastic carrinoms of bone which was primary in the prestate. The first case showed the usual picture as described by you Reckinghausen I the portions of the skeleton which are most concerned in the mechanism of bodily movement, the ertebral column and the ribs, very marked changes ere found and ther was preponderating lose appositus due t the unitation of the pests of carcinoma cellproliferating in the marrow spaces. There was also congression of the blood vessels of the base Bear destruction was present, but did not keep pace ith the increased new bone formation

The prostate beloaving to the second case wa lest in the confusion due to the war but the her of it tumorous degeneration is certain. This care was remarkable in that cyatic formations, gives greatly in size were found in the interior of the invalved bones, but especially under the personnen There were be whehoodral mats in the femoral heads. Microscopically the cavities consisted of dilated gland himina in the peoplasm. The author explains these formations on the basis of the great activity of the carrinomy cells, such in turn in due to the pleatiful blood expels the national being only 27 years old. In the same we be culture the chiefly subpersosteal and subchoadral stimus of the cut

Liemperer P : Parathyroid Hyperplania and Base Destruction 1 Generalized Landsomatom Sare Green & Old & Larry

worns 40 years of age he hold The patient been operated upon for carcinoma of the bread eighteen anonths previously was admitted to the bo-petal complaining of considerable pain in the back and showing evidence of metastatic cusors throughout the entire skeleton Emminutes of the blood revealed a 00,000 red blood cells 1 800 white cells, and a harmonichen content of a per cent Smear aboved poskulory tes and normoblasta The urman fashings were negath

Autors revealed tumor metastases in the board and spine and the crunial and sternal bones. The left inferior p rath) road gland measured 30 by s by s mm and as sellos firm and separate from the thyroid el nd ections through the riches showed extenses destruction of bone the replace ment by large number of cancer cells, chiefly by the formation of Howship's lacunar I other areas there was an extensity formation of ostroid and

fibrous teams

The outstanding difference bet cen this case and the urual type of bone know found is measurery cancer as the complete absence of calculcation in the newly formed extend these. The other son gests the term ostromalicia carenomatosa to describe the condition.

On section, the parathyroid tumor should hy perplases and like the paratheroids, cells of me deum sare with large nuclei ad a narrow cytoplasmic sone 'ertions through the primitary plane aboved destruction of the posterior lobe and the intermediate some by tumor growth. The autense lobe as intact. The thor calls attention to the fact that the entire destruction of the posterior lobs did not cause any change in the output of erme

Ostromalacia has been found associated with hyperplasts of the parathyroid glands, but the extensive bone destruction in carcinomatous has not been considered heretofore in this connection As in the case reported there was hyperplasts of the parathyroids and t the same time an entire lack of calcium denout in the newly formed tissue, the author considers the hyperplants of the parathyroid girads fruitless attempt of the body to compen sate for the calcium deficiency. In conclusion be states that the parathyroad glands should be exsunned in all cases of bone metastasis

WILLIAM I PRIMER M D

BLOOD

Guthrie, C. G. and Huck, J. G. On the Existence of More Then Four Isos talutum Groups in Homan Blood. Ball Johns II phas Hesp Balt 9 3 FEED 37

The authors briefly outline the history of the dis covery of blood groups. Shattock is credited with being the first to recognize the grouping of blood At first only three groups were scientified Land stemer, in 100 showed that blood grouping is dependent of health or disease and follows certain he In 1002 the fourth group was demonstrated by Decastello and Struh Jansky in 90 Moss, ra 1000, also found the group t which Decas

tello and Struls referred Mor Minot and Brem, particularly have thrown light on blood grouping It has been thought that any unknown blood ould fall into one of four groups. In the thirteen years following Moss report, the status of four blood prosps are remained unchanged no group having

been added or subtracted

The authors of this article had a case of so called ackle cell anienna under observation in which t became necessary to determine the blood group Contradictory results were bisuned. By the usual procedures the patient s blood was f und to have reactions characteristic of both Group I and Group III that us to say the cells behaved like those of Group III and the serum behaved his that of Group I This persisted for three me this a thout change and all of the reactions were clear cut

The authors then investigated the patient' fam ay They ere able to secure the blood of fifteen namedate relatives. Three other members of the family showed the same blood grouping as the

Patient Incidentally the so called sackle cells ere found a several members of the family Of those bo exhibited the unusu I blood grouping, t o showed ackle cells and t did not These unusual mana-

lestations do not seem t be dependent on each ther In the case of another patient whose blood did not conform to the usual requirements of the four groupthe authors concluded after many trials with always constant results, that the patient belonged t

it present, G thrie and Huck stat merely that the blood of the first patient belongs to Group III hose scrum as desord of Agglutinm B and that th

blood of the second patient belo gs t a Group II bose red cell cont ytra agglutinogen S. I. ADAM, M.D.

Tyler M. and Underhill, F. P. Does Menatrusti n. I finence Blood Concentration? Am J Obst or G per o t

The present method of estimating hemorlobin fails to show constant variation characteristic f any one phase of the menstrual cycle During some periods the bermoglobin rises slightly but during thers t falls. The change is not related to y amptom such as headache, with which rise in hiemoglobin has been associated by som a ntera

The uniform is of the hamorlobin percentage during menstru too might be predicted as the blood loss is certainly insufficient to cause, measurable decrease Recent tudies during menstruation showed normal basal m tabelism. F turns from measured work was as quickly overcome as at other times. The first that there is no change in the hemogloban content d therefore in the blood con centration during menstruation is in coord with our present knowledge regarding the physiology of thus function E L COUNTIL M D

Lahrnbecher A. The Theoretical Basis and Practical Application of Blood Pressure Estimations in Surikal Operations (Die theoreti sche Grundlage und praktuche A codung der Blatdrockmewong bei chirurgachen Lingriffen) H Chr 0 CT11

Blood pressure estam trons during an operation wer recently rated by Koenig, Ansch tz, and others Lehrnbecher discusses his findings in 130 cases treated t the Numberg Hospital on the serv ice f Burkhardt He comes t the conclusion that determinations made bef re operation are of little practical value and that only in cases of propounced internal hiemorrhages does the m thod offer im ports t and in the differential diagnosis

Knowledge f the blood pressur during an opera tion belos in estim ting the depth if the narcous A fail in the blood pressure during an operation is

the earliest sign of collapse and shock

A comparison between the figures blamed in medritaly after the operation with those obtained before is of little prognostic value. Of considerable greater significance is the reaction of the blood pres sure during the ening of the day of operation and th next day compared with the determination mad immedi tely after the operation. A consider ble rme indi tes good prognosi A blood pres sure which is lower the evening of the day of opera too or the not day the that blassed imme diately after the operation is unfa orable

In cases of postoperative bleeding, blood pressure estimations re f the greatest alue for the diagno an and the evaluation of the therapeutic measures used The ficency of heart timulants may also be ga ged by blood pressure estimation

m thod is partical if) usef i in estimating the good analoptic effect of intravenous narcosis Nan-rii (Z)

Nicolaysen, N. A. The Transfusion of Blood in Acut. Fasthamarthagic Assembra (Leber Distiransfusion bri akutea posthaemorrhagischen Ausemen) Ifel en 9 3312 20

The other reports four cases of citrated blood transfusion and one case of autogenous blood retranfasion (extra teruse pregnanci) 1 all of the cases there was severe postha-morrhagic anymia I one this as due to hymorhilia In cases there as great danger to life and the transfusion accord t sa e life though one patient died soon flerward from repetition of the ternal hemorrhage. In the three other cases also the un severe but death directl imminent I ope of these an immediat effect as noticeable. In the second there was change in the entire course of the condition (hemo philia) I the third, the mimedi te ffect as less orable beca se of an overlooked agetutionation of the red blood ells of the donor but the later effect on the regracration of the blood as fa orable Only single test with the red blood cells of the dunce (citrated scrum suspension) and the scrum of the recipient was made before the transfusion

he recipient was made before the translusion.

The best test was found to be microscopic exam.

mation upon the glass slade

snowed ad punctured The din was alway under distention so that the blood poured forth in stream and could be canght Pencture hollow needle is dangerous because of the formation per cent of coaged Thurty cubic centimeters of sodown citrate solution ere placed in measuring glass into which to gen of blood ere caught ad ummediately mixed, and then another to con of sodium-citrate solution ere added As coagul form easily along the edge the blood as filtered through several layers of grane before it was injected The donor was als ; close relati of the pain t The donor experienced no unplement effect even when 1,000 c cru of blood ere withdra

Sperateta, D. M. and Sansky, J. M. Latraperttoneal Transfusion with Citrated Blood. An Experimental Study. Am. J. Du. Chil. 0. j. xxi. 107.

The intraperatoreal transf son of citrated blood is rabbits to safe, sample, and efficient procedure. Absorption of blood takes place or rapidly in the peratoreal on any of rabbits. A rabbit can booth approximately one fifth of its on blood

volume in four bours.

The intraperationed transfersion in both snarmic and normal animals causes a sharp transporty rec in blood values during the absorption period. This is followed by a more permanent increase.

is innowed by a accropsy when considered sta the Studies at accropsy when considered sta the blood counts, apparently indicat that the initial rise is due to the absorption of red blood cells from the persions I can to said not merely to concertiztion of the blood. Source

Pigeon a blood injected subcrtaneously into rabbits apparently does not enter the general dreabtan in demonstrable amount. The same blood spected into the peritoneum is absorbed, or, rapidly

The intraperatoreal transferious of fresh directed closel at a true transferious, and not as the beorpton of matrices material

The intraperationeal route for blood transferious a proposed as a therapeutic method of ment Sarra; kare M.D.

RLOOD AND LYMPH VESSELS

Calcurates, D. Wounds of the Common Carolid (Ferria della carolisis commu). Arch stel de the 9 5, 433

The high mortality of counds of the consense carroid series, it due not only to the next new carroid series, it due not only to the next new metabase hemorethage bet also to constitutions such as metabase consenses and the consenses of the cons

nemales of the earth of Wills. The nation of yet coal to posture of per coal of sometime that the posture of the coal communitum branch may be abent or the laternal carold am not communicate in the erichal Some riter believe that the blood loss and lowering of the blood persons are so great that blood cannot be facred through the earch of Willis, while other claim that retrooderows interferes in the collateral circulates According I another theory the finalty. He carolid all uses ground of the cause through structures of the collateral circulates and the carolidate of the collateral circulates and the carolidate of the collateral circulates and the carolidate of the car

of the seconstructors, but shuts of the bleed supply long enough to cause cerebral anema before the collateral circulation can develop. The time may be but a few painters.

Experimental work on dogs and cuts has not

throws much light on the subject as the regard to mas. The wither reports the case of mas 31 years old ho as shot in the check, the builted lodging best thin the single of the case of the subject of the case of

too The external and Internal carotud, antenor and naddle creebral, and chrice of Willia were patent and of normal culiber. There was no sciences to asseme infarct of the brain and an increased amount of ventrocale fluid were present. I the arbar's opinion the ancemia was caused by persact et aparticity of the arternal walls. Immediate operators is indicated after such imjury (i mare reportal kernalcass instead of insecure spot turocos plagging of the vented. The arternal spassin may be the relevend.

Ticky II. A Case of Arteriorenous Aneurism of the Scholaries Artery with Rerevend of the Germittees of the Arm A Contribution to the Fanctional Transformation of Blood Vessels (En Fal von Assaryana arterio-enosum for Sudavia mu Unikari des Armitrosiani I in Betting zur funktionelles (Seisessambildung) Zes brill (Zes 9 st hz. 9

A former infantryman 6 years old, as myured in the left bookler, in 9 p by a bullet An aneurum of the character leaves are superiority of the character blook papers of the character blook papers of the character blook papers of the character of the left and of the chest on the left made of the character of the left and of the chest on the left of the left and of the chest on the left of the left of

of the various strands (those representing the cephalic and the basilic veins)

In 192 a sudden aggravation of the condition

mode amputation of the mecessary At that thee, the varia representing the cephaloc can waster graph and bloodless, and presented night that it is to be a supersymmetric that the can be a supersymmetric that the can be a supersymmetric that the things of the can be a supersymmetric than the can be

The natural was very considerably thickened. The mance bandles in the media very separated from see another by noisy developed connects the media did not contain many classics, the pretrophen intuma aboved erydenaest ort. An internal 1 er of lastic fibers was advanted; treogenizable Zhalari (Z).

Nacher W The Treatment of Defects of the Walls of Blood Vessels by the Application of Rubber Freeterlee Coverings (Zar Behandong on Gassawandief ktm united warmachertskedlen) Zentrall f Chr 9

the, \$7

The author discusses Moony's suggestion for the tepan of defects in the walls of blood essels

In large and not too broad defects hymostasis can be obtained by the pplication of rubber covering when strong is impossible. This procedure may prove to be better than ligation because the occlusion of the blood essel occurs slowly so that time is gained for the de lopment of a collateral circulation and necrous of tissue a prevented. Attempts to obtain aggl timation by means of rubber solutions are t be decountenanced. A utably wide soft rubber tibe plit kingthwise applied round by vessel and hid together by loose coils of thread land to the complaints of the complaints of the complaints of the complaints. The complaints of the c

GENERAL BACTERIAL INFECTIONS

Miller R. H. Tetanus A Report of 116 Cases at the Massachusetts General Hospital Swg G acc or Olisi 9.3 xxvi 90

One in estigator noted that tetamis often occurs only after the wound is dry in disealing is well advanced. Another classifies cues if tames int three groups () cases due to puncture wounds () those doe't cold o freezing and (3) tetamis if the newhorn

Miller classifies the cases int its types vix teining ascendens or local tetaning, a dictannes descendens reperent letanus I tetaning ascendens, the tonin, making it is vighretly it the cord, first involves the muscles of the wounded extremity this being follo ed in some case by general symptoms before death occurs. In tetaning descendens which is byf at the more common form, the in olic meet of the central near-ous system causes, first, symptoms in the muscles of the jax and neck ind them more or less extrems—involvement of the rest of the body.

A preventive injection should be given in every case of injury bowever slight in which there is reason t fea tetanus. This applies chiefly t durty puncture wounds of the feet or hands, severe lacerating wounds of any part of the body and especially compound fractures.

Since '87' 116 cases of tets on his a been treated in the Missistements General Hospital. The total mortality was 60 p per cent. Antitionin was first used in '80' Previous t. 80' the statistics in cluded twenty cases, in which the mortality was 80 per cent. This demonstrates that a certain number of cases I tetanous will end in recovery even if they are not given specific treatment. Since '80' there has been numely-seven cases with mortality of 7, per cent. This slight decrease in the mortality the thor believes in due t more intensit and intelligent administration of tittoria.

Of the last 6 cases under his observation, three recovered. The first was that of a school girl 6 years of age who was distitled t the hospital with puncture wound of the foot. Treatment coording the symptoms caused the disapposarance of unra-

puncture wound of the foot Treatment coording t the symptoms caused the dasappearance of agos of tetama in seven days but the patient died of brunchopneumonia

The second case was that of man 44 years of ge who was admitted to the hospital with lacer ted infected wound over the right thial tubercle due to the kick of home. This was the first case in which huminal as used It had no untoward effect and proved of value

The third case i that of a child 4) cars of age who had lafected numerous mosquito bites by scratching It not a very severe case and the patient recovered feer the administration of 55 000

units of titoun

The fourth case was that of girl 7 years of age who had puncture wound of the foot due to a nail The wound was treated in the routine manner ad a titozin and luminal were go en This was a ery severe case and, in the utbor's opinion was saved by the treatment

The fifth case was that of another gul 7 years old infected a und of the upper arm. This wa a se ere case and seemed Imost hopeless from the beginning I spite I treatment the putient

ducti The uthor concludes as follows

t Prophylactic injection of titoxia should be given m every case in which there is the shightest prosubility of the development of tetamin.

. Lacroson and debridement of the wound is the first essential. The wound must be kept open 3 The use of magnessum sulphat and carbolic

scal is of doubtful aloe 4 Sedatores must be med as indicated Laminal

is a valuable drug

5 \ titoxin should be given in large doses by the intra-panal and intra enous routes and in small

doses int the tissues around the wound GEDWOR E BEILEY M D

SURGICAL DIAGNOSIS, PATHOLOGY AND THERAPEUTICS

Clark, A. J The Scientific Basis for Non-Specific Protein Therapy Brill J 91 15

Clark remaids us of the mercusing number of clinical cases greatly benefited by the judicious use of foreign proteins of the products of protein break dos. These clinical successes developed largely in America and Germany ha forced the attention of clinicans who for the most part ere previously based by the belief that, to be of value, such therapy name be of a specific nature. This article attempts to summarize the present at ten of scientific evidence regarding the nature of the effects of foreign protein

Intraviaous administration, when properly controlled, has been found a rapid and 'ery effective method It is indicated in acute infections such as typhoid fever in blch the foreign protein often causes termination of the ferer by crass, and also chronic infections such as arthritis, genorrhim, and authrax The reaction is more severe bea the

agent is green intravenously The februle reaction is emeattally the same hat ever agent is employed Sternio milk, purafed casein, normal serum, purified proteoses, or peptones may be tilized Ber believes that any agent causing the breakdown of body proteins all give therapeuter result samilar to the results of foreign protein injec tions Accordingly radrum, the X-ray and the cautery give rise to the same febrile reactions by destroying truste cells

It appears probable that the common active prin cuple in the protein reaction is product of protein decomposition. The reaction is characterised by race in the temperature amounted ith an increase In nitrogen metabolism contraction of the smooth muscles, racreased glandular secretion, and nacreased permeability of the capillaries

An excess of protein decomposition products violently toxic. Hence the necessity of carefully

controlling the dosage of the protein employed Perhaps the most important effect of protein therapy is the increased permeabilit of the capit larges, especially those of the la er and the skin. As direct result of this there is an increased for of lymph buch washes the products of cell metabolica

into the blood stream

The chief blood changes consist of an immediate leucoperna followed by leucocytoms and an increase in fibrinogen, globulin, thrombolingse, and blood sugar The proteolytic ferments become definitely more numerous. The autibodies are also increased The bull, of exidence indicates that non-specific protem therapy results in the washing of cell and times fluids not the blood stream causing definite changes in the composition of the blood. Which of these hanges is directly responsible for the beneficial climical results as still unknown

Jones W. Norme, M.D.

Wildergras The Illistologic Procusses Occurring in Skin Implanted by the Brane Method (Leber de briologischen Vorgreige bei Hestimplastation mech W Brau) Arch f blur Cher 9 2, cer 4 5

The thor m estigated the histologic processes in the skin grafting method of Brana, according buch preces of skins, to 4 sq can in size, are sunk obliquely int the depth of the grands tions. The implanted pieces of skin were removed after one t five, seven, eight, fourteen, twenty one, thirty-fit fifty-one da a, and six months, and examined in strict sections. Special trention was paid to the behavior of the implant (epidermu the transplanted tuper of the cuts, especially the clastic fibers) and of the stroma (blood vessels, elastic fibers connective timene and granulation tusue) the healing, and the clinical results

The implant ad the stroma showed direct aggintmation. There was no vudat or fibria byer As rule signs of inflammation, marked filling of the blood carels of the stroma and dia pedous of polynneles lenencytes ere noted as re sult of the foreign bod urntation. After forty-eight hours the derivatives of the connective these cells and the vascular endothelia equalled the round cells in umber. The injuries to the epithelium due to the cutting, the effect of air drying and squeezing ers of short duration as fter twenty four hours progressive changes (amitotic figures) were already recognizable. After forty-elight hours, conscalproblerations of conthelium and a new formation

of conthehal cells were suble

The regregation of the epidermis began in the cells of the tratum cylindricum and tratum spinosum. The adness of the skin (glands, sheaths of the hair roots) did not play any part. As the growth of the epidermia progressed, the graft canal as limed ith epathelium which then spread over the surface of the granulations. Sections of the ment occurred from the viable implanted connect ve transe elements d from the stroma From the eighth day the border between the substrutum and the implinted skin became indistinct. The connection it is the circulation occurred through ascular sprouts from the stroma Degenerati e changes appeared early in the elastic fibers. The ew fibers orgunated at the edge from the fibers of the stroma

The slim grafting was done thirty twittines. The tendency to shrink go was slight. The possibility of moving the graft on the substratum was limited in the beginning but improved after eight t ten weeks Scaulality was alw as reduced, but the sense of pressure was usually maintained. The final result

as als ays a roust t, lasting alin Epithelial evits ere not observed TRANSPORTER (Z)

ROENTGENOLOGY AND RADIUM THERAPY

Merton, R Deep X Ray Therapy in I Racul proved 0 3 T. O

Deep roentgen therapy is primarily matter of roentgen ray dosage since t is definitel proved that under certain well defined conditions an abnormal cell is killed by an exposure to the roentgen ra that is resufficient to destroy normal cells. In estimating donge, both primary and secondary radiation inclashing scattered primary rays, must be taken int roessicration. For accuracy of measurement of the presery radiation it is essential that homogeneous To be used as all the factors concerning these ha bera carefully worked out Secondary radiation is more deficult to measure accurately but it is know that at any go en depth t increases directly thin hents, with the hardness of the tube and the size of the field irradiated. The charts prepared by Des sager are of mestimable value as they make t pos able to adopt technique which will gov an even aramation of any lesion of moderat size t an of the until depths

Serts and Wintz of Erlangen has evolved hat may be justly described as the first compl t ystem of rocatgen therapy ha ing sound physical and belopcal basis. As basis of dosage they use the mart skin dose. Working under their prescribed conditions, which are easily reproducible with the equipment they have volved, this dose go en rise after about fiv days, to alight hypersems which gradually subsides, leaving the kin undamaged though pumented or tanned Taking this unit skin done as on per cent the limit of tolerance is as

follows muscle, 180 per cent intestine at per cent ovary 35 per cent tuberculous, so per cent sarroma, 60 to 70 per cent, and carcinoma 90 to 120 per cent. Forty per cent stimul tes 60 to 00 per cent paralyses

Measurement is carried out by means if the sento quantimeter or with Kienboeck s strips. The dosage is co trolled by time alone when once the acti-t

of the tube has been ascertained

Certain factors has an import at hearing on the probability of necessful result from nyadiatio the putient's general health is practically unim paired if the lesion is localized t relatively small area and w thout w de local extensions, if every part of the growth is accurately evenly and thoroughly urradiated, and if the eeneral health is carefully looked after during the subsequent weeks, it may be but down as general principle that the abnormal growth will despone at

In the technique certain difficulties are acount ered in practical work. If possible no skin area or other normal structure should receive more than the unit skin dose. Overdoses and also normal doses repeated three or four times bring about an obstinat local ordema These hard ray seem t ha e a the local hymphatic circulation special ctio Loss of radiation between the surface and the levon beneath by dimension and baomtion must be om-

pensated Superficial conditions are easy to deal th If only the skin is in ol ed, ery even are diation may be brained by long focal skin distance the time being increased as the square of the distance Central lessons are probably the easiest t treat with accuracy. The depth having been ascer tained and the percent ges from each port of entry being known, the lesson as ttacked from as man points as necessary to build up the desired dose. The difficult cases are those with superficial lessons in which there is limitation practically to ne port of entry and those in which the lesson is utuated in parts of the body having an irregular contour such as the paws, the neck, the female breast the ulva, and the arms. I this class of cases the difficulty ha been partly overcome by covering the lesson with some material ha ing the same absorption and econdary radiation value as normal theues so as t make it central lesson W ter paraffi war, bees wax, and dough made from ordinary flour are all suitable

In conclusion, by w y of encouragement, the thor briefly reports several cases he has recently treated with encouraging results. One was an inoperable carcinoma of the breast hich the improvement was so great that surgical operatio as go en up indefinitely. A case of cancer of the resophigus with practically complet obstruction as relieved of the obstruction and the patient regruned his normal weight. A case of carcinom of the pancreus as symptomatically cured and has remained so for t elve months. A case of cancer of the prostat was sufficiently impro ed t render catheterization unnecessary and the patient is well

and enjoying life. A patient with a rather horeless sarroms of the lung shows retrograde changes and appears to be in perfect health Appear Harring, M D

Wints, H. Johnson from Roentsten Ray in Deep Therapy Am J Receipted 19 3, 2, 540

Aside from injuries attributable to cureicus or workilled hundling I the roentgen appuratus and overdomer certain dangers are inherent in the rent taclf when it is used, at present, in deep theraps

These are divided into two groups, local and general. In the first group are injuries caused by exceeding the limit of tolerance of the tissues and resulting from the defects of our present radiation technique To give sufficient radiation to deep-scated lessons cross firing is necessary and regurdles of an other wise exact technique certain structures in the line of the rays may receive an overdose because of sum mation, this resulting in orders or alceration. Thus narts of the mecous of the intestines or the urinary bladder may be affected who treatment is given for uterine cancer or parts of the lary nx or tracker may be injured a ben adjacent parts are braduated. These injuries may be due to durect overdos ge or result accordarily from vascular injuries

Another factor responsible for injuries is the addition of a radiation intentity derived from uncommon secondary radiators whereby the radiation dose is increased though the primary radi tion was cor rectly gauged and did not exceed the hunt of toler ance of the tissues Retained opaque meals, fecal master, and collargol injected int the nemary tract

may act in this manner Lowered resistance of irradiated turnes to infurmay be another cause of local injury and probably explains the so-called late injuries If t the effect of the roentgen ray upon the cells another mysent as deled which normally solid cause no injury at all, the skin all respond t the summation of the two protents with distinctly recognizable reaction. Factors th t may incide such reaction are persistent pressure upon the irraducted part of the skin, the application of ice begs or hot com preses and chemical changes produced by the administration of internal remedies. Severe tramats of praduated parts of the skin may cause serious

injuries such as secross If the same dose is repeatedly employed in the same part of the body the total of the macroscopac ally demonstrable injuries. Il produce parture, namely rossigen raduration. The skin ir radiated with a dose of too per cent of unit skin dose two times, or at the most, three times, at later vals of from six to ten weeks, becomes leathery nd thick, feels tough and hard, and presents an orders atom appearance. The cause of these changes is undoubtedly to be found in ascular injuries and an increased permeability of the vessels. The other tueses, including the muscles and the connects—to nes, will reset in a similar manner. The power of

resultance of thrue thus injured toward further

additional injuries, such as transactic or chemical nous of infection, is considerably lowered. If downs the period of the infiltration (understoo) the skin protected against all infureous fathences, the cook

tion will recrede in from one to one and half years Far more dangerous is the infiltration of the pulmontry there which may appear after irridation of mammary curdinomats or hear tumors. The field ings in such | long resemble those of a central poet Fever is absent but there as which mota tive cough. The affected part of the lang a, cl course usekes This condition is also comparatively harmless and will recede apostaseously in the course of one-half i three fourths of a year. If an mirr current disense (pacumonis or bronchille) comple cates the radiation induration the prognose is almost

al as poor I greatly increased reaction is to be noted wh every gross change in the turne because the roungen treatment introduces an additional norious agent This increased reaction may be observed even her the skin is onl slightly irritated. Attention called sho t the infimmatory reaction of the targe following radiation of the practes in cases of discret adne t. The reaction all be increased also if the cells are not with changed and when a systems ducase terts a injurious influence upon the cell.

In ddition t the local injuries enginerated, deep rocutgen therapy may produce certain general or systemic junes on the operator as well as the pa tient. These include blood injuries and those due to inhabition of the air of the rocatgen from and surge hich can be orded only by special devices Acute blood injuries result from acut destruction of the blood corpuscies Thes follow long-continued arrada toon and are observed only as the patient Chronic blood injuries due to the effect of the roent gen rays as ell as the rocatgen or occur in the personnel of the \ ray room

hanges in the blood occur during Destructi each therapeutic praduction for the destruction of pathologic cells. Their mount is directly propor tootal t the quatty of rays introduced and can usuall be overcome if the national a stal career >

not too los

The injuries caused by graduation metude also the so alled roestgen Kater or roentgen mids Changes in the backementry of the cells are produced by the rox tgen ray through infurs of

the cell broad-The general injuries out tring in persons iming the Yra are principally chronic blood changes count ing of rather high percentage of counophibe leace c) tes (t per cent) and leucocyto-us (

4 000) but appear for long continued \ to ork. The injurious agents are found chiefly air which has been strated by the electrical surgers and particularly by the arone formed from the air by the mentgen ray

Man of the dupors inherent in deep rocatges therapy cannot be orded even by the best fresh sucal and medical construction of the postatus and the nost thorough Instruction of the technical and oxedal personal. Others may be obvitated if their ensisten is recognized and proper measures are titles. The Loweledge of the therapeutic value of soders deep reentigen therapy will attimulat. It tensuic and correct invastigation t is not die gern and thereby contribute to the success of deep recent get therapy. Amoure Harrow, M D

Halberstnedter L. Roentgen Carcinoms (Ueber dus Roentgencarenom) Eisekr f Krebsforsch p na. (

The author differentiates between t types of rocatgen carcinomata () those occurring as oca tional lessons from the professional use f th Y ray m high the influence of the rays m produced over a long period of time though in hardly measur able amounts and () those resulting directly from myestigations or treatment with the \-ray course of both is similar drying of the kin due t the function disturbing or destructive effect of the Verys upon the sebaceous and sweat glands, th formation f rhagades, hypermenic reddening the development of pigment, the formation f horn his accretions (hyperkeratosis) and vascular dil station. The disease may become rrested it an stage, or more severe changes may gradually set m without further exposur it irradiation. Hyper keratous especially tends t carcinomatous de generation Chronic superficial ulcerations follow comparatively trifling injuries. The regional gla diare attacked relatively lat. The histologic picture a that of cornified squamous cell ep thelsoma Tumor formation may result from the influen

attent formation may result from the influence of the X rays also in akin which was pr viously abnormal, as in lupus vulgaris, less free in lupus crythematous, and occasionally in paoriasis

Bendes carcinoma, sarcoma may ensue Fxperi mentally this can be hown in the rat

Described the conditions of the skin resembling the meditions consided by V-ray degeneration are articless of the skin resembling the meditions tensed by V-ray degeneration are articless. Rocatigen skin (V-ray skin) irreduced propositioners, and seames a skin have this is one one, that they develop as result of physical mixton associated as it radiations of short wave legit. The presence of pathologic changes is openious of deeper and hypermentarrocass.

The consequence of myrenemoreuses.

The consequence of all three descesse extends to provide a party. Fra-emment among the symptom or the party for those members of a consequence of a consequence of the consequence of the

Nebrier, J. H. D. The Clinical Results of the Treatment of Vialignant Disease by the X. Rays. Lexos cq. 171

As different cases radiation treatme t is used as a prophylactic, palhative, or a curative

agent, the results of each should form separate tatistical group. Cases treated by peophylactic radiatio collaboration with the surgeon should constitut distinct group subdivided ecording t

the the relation is given before the operation or after or both. Also the results f pulmative ridus to after many incomplete operatin so or in moper able cases (and, perhaps, the majority f cases at present referred t the radioquature; this group) should be coundered separately. In only small proportion of the cases referred for radiotherapy can

attempt be made t arrive at definit cure Of the cases in which curatry radiatio is in en the majority are cases if superficial enithelions of the basel cell type. The cosmetic results if roent een ray or radium treatment are better than those of surrical measures and the percentages of chescal cure are as high or higher. The chief causes of failure are nadequat or wrong methods of pplication. The results in cases of aquamous cell epithelioma are not as good as those in cases of basal cell epithehoma the former there is freque tly an early wide invasion and the lesso is of more persistent type equiring more intense doses. The tongue is most unfa orabl site for any form of treatme t but clinical cures obtained by radiation, especially by methods of radium umplantation, are recorded When the roentgen ray is sed, cases often fail t react t massive doses and improv when given

repeated fractional doses dminstered within period f month or t t the most The treatment of breast cancer is one of the fields in which radiation may be expected to be of the great eat service in reducing the mortality or prolonging his beyond the verage duratio of the and one half to three nd one half years. I this condition also the results should be grouped according t whether the treatment was given for prophylams, pallintion, or cure. The best results published so far appear t he those of surgery and radiatio combined. Poor results may be timbuted largely to faulty methods or technique. In about, so breast cases radiated in the past year the author has seen very few recur rences while course of roentgen radiation was in progress A considerable number of the patients coming for treatment have shown regression, least temporarily. About five cases of recurrence in bone ha been treated but the results so far are inconclu-tve In two operable cases of primary cancer of the breast one treated with the roentgen ray and the other with radium, the growth practically desippeared. Palhative radiation has a wide field, sometimes resulting in operability or relieving the pain, ulceration, etc. or delaying further exten sion and the mount ble mone. In cases with ulcera tion the best results were obtained when zinc or

other sometion preceded the radi tion.

I cases of mechanizal growths few chancal cures have been obtained, and a large number show temporary benefit. Testicular tumors are of great interest of five cases it present under observation for extression into the lumbar glands or recurrence.

after removal of the testicles, acveral responded satisfactorily

W th regard to malignant gypecological conditions there is a wide range of opinion as t the relativ alue of operation and radi tion. Some Luropean clance report a high purcentage of chascal cures from railsotherany in both overable and inonerable cases but insufficient tim has yet chared to determine the permanency of such cures. Certain fact suggest that combined surgical and radiation technique as in breast cases, may go better result the operation or radiation alone. Inoperable cases have frequently been repdered operald by radium treat ment Like testicular growths, oversan proplasms are often ery radiosems) and pelvic masses m

sometimes regress quickly relieving pressure or other symptoms \ mumber of cures of plyar car cinoma obtained by radium and by the rocateen

ray his box reported Gastric currer was the first cancer t be treated by the roentgen my but all probably be one of the last I yield t radiation or ny other form of treatment Compared ath as perological cancer cancer of the tomach occupies most uni vorable sit serrous ded as it is by stally important glands and ther tractures Radiation is regarded as ad asable after partial gastrectors but en & cases so to ted have been reported Primary cases with not ers marked eachesus should be given the chance of roentgen ray treatment as in some instances extra orth ary results has been obtained by this procedure. Cancer of the colon sometimes reacts. ell.

ith or without resection or colostom. Each case must be treated according to its particular requiremente Usually both urgery and reduction are

undicated

la regarda surcoma other than utering surcoma, the author believes that the conclusions of Perthes ad Jueaging may be generally accepted. These are

es follows In all cases of inoperable succome even large rhousecomata of the brain, the roentgen ray should be tried. The remarkable results in a pophyseal tumors are notes orthy

Lymphosarcomats should be radiated rather than operated on, as they react ell to radiation t I persorteal sarcomata of the pel a boulder or samb yornts better result are obtained ath rachs

tion than ath operation

A 11 elogenous surroma sometimes egresso-

authorit any treatment. The results of resection are rood, but if amount twon as considered dution should be tried first

5 Marillary sercomats, if operable abould be rejected they are difficult t radiate saturactorily nd all the early recorded cases were aderdosed 6 Skin sarromata abould first be adiated If

refractory to radiation, they should be exceed The results of radiation on a turnor high reacts

well may be () complet desappearance by b-orp tion of the degenerated turoor cells () lessening of the sure of the turnor but persestence of residue

escally firm problerative connective them (as some cases it may be advisable if no suble to remove this by operation, but if not, it should be watched for many years for signs of renewed activity) or (1) reduction to a certain degree and thes no further change the tumor appearing biologically dead

A rapid mercase in size and generalization are sometimes observed cases anderdosed or reinctory or in which the neoplasm as already too interpreted. and an eeptic malignant tumory sometimes slough rapidly after heavy radiation, fractional design methods are divable if the case seems it all suit able for treatment. Local results, anart free those in the tumor are usually temporary such as those in the slan and the salivary and intestinal gland

Undeurable general results from radution are usually see in the blood, the intestines or the duct lers glands. I considerable series of cases not as much blood cha go was found — had been expected and there we no trouble with bowel sequele. In one store ch case there was light but definite adrenal mentionency for about 1 months, although only one attenual error od considerable dose. Tem norary emeral effects of radiation, such as receipts suckness, are reduced in interacts by careful premier retrustation of the pateent

It is the thor behef that cautious progressive present d y opinion is represented by the corela mone of Schmieden and Holfelder prop til et

follows 1 With few scriptions, every operable carrinoma. should be operated on Prophylactic postoperative radiation should be green also

In addition t postoperative radiation, single intensive radi tion before operation is important 3 Practically all inoperable carcinomats and all

inoperable recurrences should be radiated. In mater cases this gives a clinical cure in others it reraits in operability and in many is a decrease of the bleed ing, smitation, ad pass, and himitation of further melasi wa

4 Facial curcinomata even when operable may be treated exclusi el by radiation for courseix LCS BOOK

5 As a rule arcomata should only be radiated certainly in all cases in high operation would cause considerable mutilation. An increase in the size of the tumor after an efficient radiation should not be considered proof of failure to respond as usually it w temporary

6 I the treatment of malignran tumors the roestges ray has become sopenor t radium.

7 The relative values of operation and rach tion cannot yet be shown by comparative statistics

Radiation treatment as in rapid process of evol tion. Lines of drance are indicated as regards technique, studies of the physical and histologic side of biological edition effects and aurabaty there peutic measures such as distherm) soussition, et The uthor bolds th I ung th t hatever may be the altimate alue of radiation treatment med alone action of the or as combined method, the curat

reentgen ray and radium is the first rational therapy, of caser ever deviked from the point of west of insuminty, because in it is mode of action radiation talks on the body a forces to accomplish the cure.

ADDER HENTON, M.D.

LEGAL MEDICINE

Responsibility for Payment of Physician in Accident Case Frai vs Glerraep 7 Manie Rep. P 347

In this case there was a conflict of evidenci be tuces the physician and one whom he sought t charge for services rendered. A child was injured by truck draven by Glasmap and carried by third person into the office of Dr. From The ph secun immediately diministered first and and on examination discovered that the hild was seriously sayured and would have to be confined in a hospital for eight or ten weeks. According t Frui Glass mp came to his office soc aftern rd and on being told of these facts and the there ould be a chergo for treatment of the child, an- ered that he wanted Frem to take the case and paid \$ t expense of roentgenogram GI sanap denied that he had any con ereation whatever with the physicus concerning payment for services rendered or to be rendered and at ted that he paid no more

The rury found in favor of the physician but it was claimed that error was committed by the trial court The S preme Court said Thu defendant (Glusmap) asserts that he stood in the position of stranger who simply calls on physician to care for ne ho because of sudden injury is unable to act for himself and to hom the stranger holds no relationship which creates an obligation to furnish proper medical care I the conditions in hich these parties tood, the burden rested o the plaintiff (the physician) t prove either an express promise by the defends t to pay the plaintiff for his services or circumstances or language from which his promise to pay in ght fairly be implied from the request he made From th eva dence relating to the conversation bet een the parties and the time and circumstances in which it took place and also to the payment of \$ or crount, t might reasonably be found either that th defends t made an express promise to employ and pa the plan tuff for his services or that he made request of the plaintiff for his services which implied promise to pay for them \ to the difference be t een these alternatives, the court did not suffi-ciently instruct the jury. It did not define an express promise an unphed promise ment as coordinarly set aside and new trust ordered THEORY T MALLIE!

GYNECOLOGY

UTERUS

Aross, 1 Literine Secretion An Experimental extitation int It Lifect upon the Laugula tion of the Blood, Iwe Crew & Chy . s.

Ore I the imp tant problem confronting the proceedings is that of so-called essential terms hemorrhier It is mute obvious that before w en explain the pathologic condition we may first know the cause and the mechani m of pormal mensions tion. In the latter phenomenon the most atr Line feature is the fact th t the harmorrhage runs strictly limited course in sont of the powent inco-

gu thebts of the meastrail blood Schulele howed that aterms e tract retards the co gulation of the blood. Direct holds that the factor responable for the non congulated to of menetrual blood is the ant through formed by the terms mucous thi be explaint, prevents clotting by reutraling the action of the fibrin ferment. I could blenching he ascribes t an aces of antithrombin \ fa back as 1804 Rood showed that is animals the pterms h deamt secretion

In series of pr I minary experiment the uthor attempted t in estigst the flect of saline ad di tilled after extracts of human terme motors but his results were inconstant and contradictors prob ally because his extracts contained other tissue

naces and blood

In his animal experiments eighteen young female rat ere used The term exposed by a coper Inchoon In half of the animal pubic medi heatur a then hed below the belurent on and in the other half placed round one horn just bon the billurcation The amon is one then examined t inters is of one to three reks by other | parotomer In the successful cases rearked distriction of the hgated portion of the uterus due to clear ornies cat fluid a found This fluid was removed by means of a fine aspirating people and tested aguast blood removed from the heart of the same animal or another of the same breed

Later in the series of experiments the secretion from the uterus of the rat was becked gainst guaret pig blood ells hum a blood. The results obtained ere the same I all of the experimenta the aterine extract del yed the cougal tion of the blood by from t o t eight minutes and when the clots were incubated with it they use ally reclassioned

Taken in confusction the the findings of White hothe II lbne I rankl, ad others, the results of these experiments Justily the theory that the crosse of abnormal bleeding which cannot be accounted for on natornical grounds (is the presence of a neoplaces etc.) I de lation from the normal m the secretive formed by the atende macous

C.D ILVARIA M D

Tenckhoff B.: Ventrofitation of the Uters and It Complications Heps (Zer Iran der Ira t that is even and their Louisblatum. Part & Fish f Che a chim, ra

The less of writers on the indications and the method of operation are still idely divergent. In regard t the indication Vorschietz agrees in general ath Kuestner he seembes an important part all detarly notes to retroderson but in the bret it ge of prolapse and which he believes should be tre ted at the time of maturety. The Mess by ld m operat as k discountenanced. If an opera tion is done the cuits of the lesser pubits should bole cresult ver

The massion generally used by the thorn the it reating increson of American The Pfarrensted ires on carrot be extended hen necessary If supportation is feated, the media Incidents emploted 1 ginofization and escofization sily lead t d turbances in labor his the Obhansen ent of two there he po cable end I macterium or when simultaneous castrition is to

he done Heu is senous da ger T essendue t firstion t the promontory have been reported by Ochlecker three by Barg and others b Hastrap The condition arrest from strangulation of coul of mtestine i the cuco-uterine space usually at the

sale of knowly hanging round bysament Laples t symptoms re produced by traction on the perstoneum Recurrences are frequent, especially

after the Mexander Mams operation

The Dolen Galliam operation words all there complications I this procedure the round aga ment is grasped about t a cm from its insertion in the atera and after the formation of a puncture can't through the rectus mo-cle is fixed to the aut mor sheath of the rectus th sutures. The lateral portion then passes to the inguinal canal as occurbusel he generated the belominal well that so intestinal oil ca slip through it the dangerous shi is vouled. The noticres in the ligiment, re-boried duringstion of the fisci

This operation done 51 times T cases of thes ere found among bit were examined sub-equently I these the terms hich as pa tally adherent to the large intestine in the call de sac of Douglas had need the large testine with it forming kink I order t avoid such an occurrence the terms must be freed from discusons. There as partial recurrence in only one care. In this instance approtomy should that the bigament as stretched sat his a thin peritoscal thread. Disturbances it has were never observed. Two women dead from premionia. Respiratory exercises and in februle cases, the administration of 2 pm. of optochia as times in addition to surforecoss blood transfusion of 50 to 50 cm. of milinate the dauger of pneumonia of 50 to 50 cm. of milinate the dauger of pneumonia less form were benefited, and four were not benefited of thirty for case, twenty-two were complicated. The nethod offers excellent results in both complicated cases. Surface August 20 total and additional contribution of the complicated cases. Surface August 20 total and accomplicated cases. Surface August 20 total and accomplicated cases. Surface August 20 total and accomplicated cases.

Weise, E. A. Radium in the Treatment of Uterine
Harmorthage of Non Mairgnant Type Am
J Old & Gync. 9 3 85

Eghty-three of the cases indied were cases of selecting most only those in which the tumor is solarger than three months gestation were chosen for ridum treatment. Intralignentary or degree cuting tumors were not considered suitable 1 gaits of storoids be reports from other chines, pedan calated tumors were also each ded from the series where bose surpracting dependentive changes in the contract of the contract

Of all cases receiving full dosage forty were ru leved at once and there was no return f the bleed mg Thirty five of the women menstrusted ce and fifteen menstruated three to five times. Ten received t treatments. The irregular bleeding for the first ten days after treatment is of to be at inbeted to the radium at is rather the effect of the carettement, if not due to disturbance of the ovaria hormone. A large percentage of the patients had lescorthes in varying amounts for the first two t are months. Frequently this was very annoying and mutating. As a rule t was elseved best b douches of bicarbonat of soda. Probably the most annoying sequels were names and vomiting which occurred when the radium was san In the cases of patients who wer not amenthetized these were often attributed to the prehiminary doses of morphia but the natures as present in eighteen cases which pether morphia not gus was gi en

With regard t the treatment of benign ham thage from the uterus the thor makes the following statements

1 Radium should be used fully in selected cross such as () myopathic bleeding f delearence such as one respond t the usual medical and lypenic measures () bleeding myomata which are st small or moderate use and uncomplicated by ideasal disease (s) the menorrhaga of the meno

The doage depends upon () the age f the patent (2) whether the function of child bearing is to be preserved or anorabeed a floomertomy should be performed the

"1) Concrtom; should be performed the Cases of young women, a d byst ectomy when th tumor is large or complicated, in preference t treat ment ith radium 4 Complications and unf vorabl results can be avoided only by a careful discriminating differ ential diagnosis
6 All cases treated with radium should be care

fully followed up for several years

E. L. Committe, M. D.

Glies, A.E. The Indications For and the Results of Myomectomy J. Ohn & Gyme. Bril Emp. 9 XXX 608

One important dicatio f r myomectomy is the child bearing age. Myomectomy is the operation of choice p to the age of 40 years. In the uthor practice, my mectomy has been performed on s per cent (somen under to years of are, on ta 1 per cent of those between 30 and 35 on 9 s per cent f those between \$5 and 40, on 6 9 per cent f those between 4 and 45 on 5 I per cent of those between 45 and 50, and per ce t f those over s M omectom is directed also by the associ tion of fibroids 1th pr lapse this complication requiring the preservation of the terms for fixation to cur the prolapse. Another indication is objection to hyster. ectom on the part of the patient. In some women the loss of the uterus is apt to be followed by peofound and persentent depressio \ ray treatment is therefore preferable Myomectomy may be prop erly done iso in cases I solitary or pedianculated tum is not associated with excessive bleeding

Hysterectomy is preferable t my onnectomy after the good; it as bee fibroids are associated ith latateral t bal disease or or arrain tumors, when the uterns left will be buttered and uncless, when the fibroids cause excess or hemorrhage and when the patient demands—complet—cure and will not consider a yrak feature.

Myomectomy is done during pregnancy only in

the presence f spant symptoms or for filteridal complicating labor Surpeal treatment filterion complicating labor Surpeal treatment of filterion complicating labor Surpeal treatment of filterion complications of the terestomy term. The indications for myometomy term to the more of pain pressure as implicant, or tudications for spot or despected in the stages in the timor of pain pressure as implicant, or tudications feature of despected in changes in the timor of the timor will obstitute labor. My one-ctomy during pregnancy is satisfactory operation.

RANGO E W TAIN M.D.

THUY E W TAINS U

Bonney V The Modern Scope and Technique of Myomectomy J Obst & Gyme Bril Find g

The a thor review the history I myometelmy diells I the difficulties encountered before the development of modern surgery. Reference is made to remarkable paper read before the Liverpool Victical Scorily by Alexander describing method or modestum; but have been dimple atturce of which of modern the best of the first product of the control of the con

entral fixation. Because of the severe critici in of the operation at that time it we due riled

The uthor behaves the uturn should be conserted in women in the child be ring ge for the following FT 8 30 FT

1 Many women bolk not borne children feel th t they cannot Justify their exi tence if Il hope of reproduction is gone

s Il terectom is di-turbing from point of sex J In momen under 413 ra of ge child be rung

is possible if the ateries a conserved and the t besad ovaries are healthy

4 The remot 1 of the ateros hast n the lung. tenc

Bonney report too cases of anyomectom in which from one t thirty bbroad were removed The location of the turnor of 1 tile import no If peress rv the endometrial cauts mobe opened Cervical fibrord are the most difficult problem Malignant degeneration, and necrosis and pour-tion due t sepsis are contra indications. I preg mancy pedenculated or superficially placed abroad can be removed without gire t da ger of abortion. The removal of more deepl to ted tumoes is speciated with greater risk. Hereday is difficult to control The recentl deli ered terms is for ble for the en eleation of fibroids

Menorrhagia and profound material cont. indieste my mectomy but moder t menorrh aic anemla does not, provided all the 4 mor moved and the remailing uterus is not too lirge for in olution. In all cases (fabroid with menorrhams the uterme ca ty should be opened to make crtain that no small fibroid on the suprous face mucous polypus, or great thickening of the endometri m is left. Lor the scraping y of thickened endo metricum the a thor ha found ery flicacious the steel figer it former) used for the remenal of adraoids

1. Bonney rates the most lit of my opertom a 24 2 per cept. One patient died of hamorrhage & d. nother of shock. The chief da ger is hamorrhage In no case so f r as is know h there ber recurrence of Abrord It of the omen h

become pregnant one or more times and the

operation. With regard to the technique of the operation the author at tes that all tumors are removed through

amale incision in the anterior all The fibrord most accessible through this incision is it cked first and hen this has been exoclested the next most accessible is reached by accondary increson begun in the all of the car ty left by the first tensor. If the tumors are located in the posterior all be goes through the cavity of the term Redundant times wout a yand the cut edges ar be eled turning. The terms is facultate appoution in closed ath in three and superficial tures [some casts unterior fixation of the uterus may be percessary Te control the or man creeked rang the operation the author pplies ring forceps on the

ovario refuse ligament. If the operation is 14 to be difficult be also temporarily claring the memearters on both sides. All four main vessels of the nterus may be safel ligated without fear of garerror

The rikle is concluded it is the statement that a rule fibroid do not pece-miate historician. ad that if all orders ith fibroad sold solver to operation the by terectories ould never be accessary for this cond thou

R THOSE L. W. TETCH, W.I.

Gordon, O. A. The Treatment of Hydattiarm Mole nd Chorio-I pithelioms, its s Consideration of the Relative Frequency of Each tury Green or Otto gag article

H dataform mole L a condition in bock there are char eteratic microscopic ad gross changes in the choronic alla Microscopi garrar tuorishori proliferation of the tropholds t elements, an constens hanges in the stroma and an increase in the spacetium (rood there [a chiracteratic grape-bla mass fronte

In the author of mon the condition is much mure frequent than he been experally perceed t im y be confined t a mall area of the placerta and careful examination is necessary to docume the presence of few veilder, main cases and en re putier. Amore a soo horizons at Bellevic Housetal in New York (to there ore twent of in d titurm moles (4 per cent). The mortabity is at present amously estimated at from this percent, t Helles ne Hospital it is 9 per cent. The cames of death re harmorrhage sepsis and chorlo epithe borns

Chorso-epithehoma is an extremely rare condition. Thit itis preceded by hidatiform mole ma large per ent ge of cases is ell'established lack but this does not permit the conclusion that a large percentage of by datiform moles are followed by borso epithelioria. In elev. a y un there has been but one borso epitheliosia at Bellevue Hospital. nd this as doubtful care

In sea of the rarsty of choose spethehoma and the frequency of by datiform mole the mole should be tre ted mainly to pres at hemorrhage and arres-As the possibility of the development of chorn-epithe tioms is remot such radical treatment as hystere tomy is not necessary in all cases of by datitional mole Curettage also should be a orded as it is uspossible remon the la ger part of the exides in this ?

nd there is danger that the sterine wall has been thenned by the growth

B far the larger percentage of cases all be ruc castally terminated by the mannal removal of the hydatiform mole. I the event of pregular bleeding following this procedure laparotomy with hyster atom should be performed. This ill permit thorough repection of the uterus and ma be followed

by h sterectomy if evidence of horio-epithehoria is discovered. I cases of chono-epitheliams radia tion should be efficacious both as prophylactic and therapeate measure. The bilateral varian evit must which are associated with both hydatiform mide and choric epithelioma in over 80 per cent of the cases are short lived, show no ex dence of malay sarry and undergo regression after the removal of the sterne condition.

H. W. Prix, M. D.

Burns, J. R. Chronic Endocervicitie and Its Treatment. J. Ohn & Gymr. B. H. Emp. 9 2211, 619

rms, 6ro
This article is based on a study of eighty four

case of uncomplicated endocervicus. The conducts is most common in multiparte between 30 and 40 years of age, next most common as omen between so and 50 years of age and least common as young unmarried gards. It arises from the common as young unmarried gards. It arises from the common as young unmarried gards. It arises from the common as young unmarried gards. It also consider the common properties, and the common as young the common and the common a

As a rule the pand discharge wo of thick white wood attent but t may be thin, what yellow or preventionally it is most profuse in the morn g and remainded the prevention of t

Indecreasing in of its forms—the cut and the chronic The acute form is crually found in good-horized and following infection of injuries of the may, that the bor operation. The chronic form may the control of the cut of may arise as a chronic residual of the cut of may arise as a chronic residual of the cut of may arise as a chronic residual of the cut of the control creek for the thick tenanous, yellowish macus issuing from the on-lib pertrophy derivone as we may not be persent. Biseroscopic section should be controlled to the cut of the cut o

tion and (6) an ung degree of filtrom

1 bacterological summatten of the cervix

tarty an extens aboved positi growth f bacter

10 cultar media t the end of t ent four bours in

1 spec tent. The t phylococcus illus was found

14 54 Per cent the taph lococcus unevas in

5 per cent, steeplococcu in 6 of per ce t and bacillus

10 and 13 per cent.

The stapby lococcus albus was associated the the hacilles coil streptococci, the gosococcus and micro-coccus catarrhalis and it tragenus in about 20 per cent of the cases. Dermat its was present in 3 per tent.

W th rega dt the treatment the thor discusses, () drups and caustics () our estage () douching (4) tracheloritaphs (s) comes d (6) semistion of 1.8 turns openio ionization is the only screatific method (applying antiseption) the een real can'd off thirteen cases which the first walk was positive only serven remained positive (feer not apple too of so may for tee on the only firemained positive (feet not apple too of so may for the only first of the positive first the second application, and may take positive after the thirt policitation. The technique of the treatment is a follows.

the knees drawn up and medium sized glass

I cremsion speculum is passed until the cers fits into its poer end. The os is then dried and cleaned by means of mall territized gauge sa by A a b for bacteriological purposes is taken from the cervical canal ad the reaction f the canal is determined b means f litmus paper A malleable zinc sound is then passed to the cervix for to 4 in and the speculum is filled a th o t per cent zinc sulphat solution. The ainc rod is connected a th the positi pole f the gal ansact and the negative pole pplied t the patient thigh by means of metal plat unerimposed on to or three pads of gauge and lint wrung out in w rm ter The curre t is then turned on raised t 20 ma and llowed t run for t 5 minutes B the cod of this time the os and the cervical canal ill be covted with thick whit denout. The zinc sulphate is then morned out a d

Some of the patients omplate of slight backach for fir eight bours. In one case in which there as history of genoribous eighteen months preionally acute track of pel is inflammation a set up in forty eight bours. It in one case of retrodence menorrhands as a made worse.

Of the sixtem patients with outon t were definited cured (no discharre ! three ! four months following the treatment) one developed cute pel se inflammation cight were benefited as far as the discharge was concerned but the crosso remained it ere not benefited t !! and three did not ! the full course of treatment.

Of the t enty patients w thout erroson thritten wer curred (no discharge for one t foo months) tweet end (no the thritten presented of the threat showed post climateries changes in the uterus of agual) be became worse (retroferson) and four did not take the I il course of treatment.

It appears from these result that cases with crosson re improved but not cured while those subnost eroson are greatly benefited. Cases compleated by pel se inflammation or displacement of the terus are not utable for sonce tre time it.

ς

entral firstion. Because of the severe critici in of the operation at the time, it was does ded. The author between the international the conservation

The a thor believes the aterus should be conserved in women in the child bearing go for the following travous

I Many women who ha not borne childre feel that they cannot just by their eabtem, if ill hope of reproduction i gone

ll) terectomy is diturbl g from a ≪ u l

por tolviers

3 In women under 433 resol go hiddering
a possible the uter a conserved and the tabes
demands are bestth

4 The removal of the aterus ha te the limit

The course point too caves of maconecoms in such from one of that filtered error more of the devision of the territory of the

Is craft for the cruck-ration of formed. Memorrhapid and profound a mm cost a indicat myomerctom but modernt memorrhapid armin document may omerctom but modernt memorrhapid armin document myomerchapid and indicate of thorough it memorrh in the uterine. It is should be opened to make critical memorrhapid myomerchapid myomerchapid

I Bonney exces the mortal ty of my mectors was percent the patient did of harmorth get and nother of shock. The their diapert is harmorthage. I no case so f ra is known he there been recurrence of shroids. I i of the omes he become pregnant one or more times since the notestation.

With regard to the techn que of the operation the athor states that all tumors are removed through augele increson in the auterior wall | the fibrout most accomible through this facuson is tracked first and when thi has been nucle ted the next most cresuble is reached by accordary incuson begun in the wall of the ca to left by the first tumor If the tumors are located in the posterior w Il he goes through the cavity of the terms Redunda t tosme y d the cut edges re beveled ma ard t L cut ppoutlon in turing The terms is f cibiat closed ith in tires and superficial sutures ? some cross terior firstion of the terms in his secret ry. To control the ovarran vessels don't gibe operation the athor applies ring forceps on the

Group 4 includes the postoperative recurrences of the cases reviewed, ten were in Group forty three in Group 2 fifty eight in Group 3, and five in Group 4. All of the patients in Group 1 the 13 are of those in Group 2 four of those. Group 3, and

ts of those in Group 4 are still living
V E Dupx M D

ADMETAL AND PERLUTERING CONDITIONS

Hoos, M. R. Fibromata f the Ovary Surg. Grace & Obst. o 3, xxxx1, 247

In the Mayo Clune from January 20, 0, to Aug at 1, 1911, fifty were fibromate of the overy not seconted with other pathologic conditions were removed at operation. The diagnosis was confirmed by microscopic examination in every case. During the stace period is total of 4,175 timenes of the overy case removed. One hundred and forty muse (a previous removed. One hundred and forty muse (a) per second of the cytic, either being or malignant withroats if the uterms, etc. for which the open to septement. The microscopic of the control of the cont

sea simily given in the hierature as per cent.
Infection, hemorrhage, hyperemias inflammatory processes, and keload formation may be factors in the evague of hierants of the overs. They are found if may go after puberty but more often developed to the memorator of the event of conserved the memorators. It is series of conserved and the offent part of the event of the standard of the event of the standard of the event of the event

Poses may be delayed.
The symptoms are subjective and objective. The sout common subjective symptoms are pain, dysmat, and frequency, constitution, and pain not exists. Objectively the tumor is usually move when the control of the

maxime of even a large timor. Fun was present in thirty three of the fifty five cases. The timors was movable—fifty one. As cases as present in fourteen (sperce t) in amounts strying from S to 16 liters—in fifty three cases the timors was mulaiteral.

The dammatters The dammatters of the presence of undered more of the perion, non-floringing and service of the perion, non-floringing and service of the term solid cransens, and solid strongs of the term solid cransens, and solid strongs of the overy denoting the service of the presence of the presence of the presence of the service of the presence of the presence

The treatment is surgical. Radium and the rocat far try should be reserved for cases in such opera to a confix sudcated on account of occurrent con dance such as serious cardio lemons and nephritis The proposition is good following surgical remostal temporaturely and when the patient refuses operation, the progress is influenced by the possibility of twisted pedicle gri grenous peritonitis, or malignant degeneration

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I he following conclusions are drawn

F bromata of the ovary may occur at any age after puberty they constitute 3.5 per cent of all ovarian tumors.

There may be comparatively fea symptoms.

and the tumor may be present long time without the patient's knowledge

3 Ascites and tumor of the pelvis do not necessarily mean abdominal malumancy

4 Th treatment is surgical All ovarian tumors should be open ted as soon as diagnosed

The prognosis is good after operatio

6 S beque t menstrual function is as normal as can be expected following unilateral ovariotomy 7 Normal pregnancy ma occur in women of child bearing age whe only ne ovary or one ovary and ne tube ha. been removed.

EXTERNAL GENTTALIA

Markoff, N. W. Bilateral Resection of the Pudendal Nerves for V. Ival Fruntos (Doppelastige Resektion der Nervi pudendi interni bin Prant ulvae). Ranti Gyasch Besteik, q. 1, 83

The thor reports as ere case of vulral prunting in a varing 43 cars of a witch proved refractory to uncrease therapeut measures Finally the method of kocker was used. Both internal pudendal nerws were exposed by dissection and the branches running it beginning to reserve the provided of the provided by the provided of the provided by the provided by the provided by the provided provided by the p

MISCELLANGOUS

Curta, A. H. The Disgnosis and Relief of Sterili ity J Am H Am 9 3 lars 103

Laboratory study combined a the chincal evidence lends Curtis t the conclusion that, the absence of climically demonstrable pelvic pathology tertility is nearly at a due to infection. Detailed study of grossly multiered or slightly dherent fallopain tubes reveals that the mucors is often crippled by healed inflammatory to large.

When opening of the shdomen a indicated in cases of tenthy as inflation of the fallopsan tubes by means ! Liter syrings in performed as routine provided active inflation is not found. By this unpile procedure the presence of thermac undermostrable obstractions with the the may be discipled by the contraction of the

t be the patency of the lumen may be tested.

The uthor finds also that tubal inflation magnifies the reponal anatomy thus f cilitating the study of

congenital defect and fedical relativant two in the attribute. Line kink of the perit real corning previously to recognized small distinct and other desinations from the normal are frequently reversed.

Von Albertini, A.: The Amociation of Different Mailgan I Tumors and Tuberculous in the hame Organ (honolouside, or hedener mailgan T mores out T berk bee in sellem Organ) Schen and B & ole 4 https://doi.org.

Von Alberthirtport any os drawenswhight op different limid from Jonat in more ad tobertubous ere found. This oribinate in a bested over by Hidder I in the long. In the states we knock the close of the adness associated file (arrapposa) of the, my leption of the runamed with an omis of their did of the true lands we promoted by first hindry; her

cire. Very catesia. It takes hall delit the orane belief that there his cretain. I ling. I length just the createrions and green I tobervolous. On the other hand, it must be sounced on the base of the literature and Ribbert theore that the treater sans, predespose I the des keyment of armoon. The utilizer loss not belief that in his rese their tobervolous disease with the direct many the companion of the compan

bothe don't he there may be been relation ship bet crustle vicionalosis soduli in the fails, of the term and the firsh many there is in it if it. If hold the right to the rowers is structed the hold in placing most hope in the bright or altity in it happe errested and their des levenors. In ord.

la orid.

vellicim, il. An Explanation of the Athi Tursian of I ternal Organs and the Twisting, faciniting, and Knotting of the Inshibited Con-(I Microry der Allerschritung Insert Organsme der Inveleng Limetherpag und Irika torg der Victobras) Microli and Microli in

calling the sas in sample the nal knows of osals it more. If attributes the twisting of the pedicle it habits I motion of the holo or ordic ternal's stem. Their straig of the pedicle of modemical tumor occurs more, of, the more faul.

the content of the tumor. The statistics of oil had eller as did to fit be reconsisted reprairation to purposal forms and the sterist in the process of eller pin planned in the same. The time of the burne smithed cord at 10 bated to the transmission of the burne smithed cord at 10 bated to the transmission of the mental of the results of the results of the results of the results of the results.

OBSTETRICS

PREGRANCY AND ITS COMPLICATIONS

Welz, W. E. True Eclampela and Renal Fclampela J. Michigen State M. Sec. 9-3, xxii, 7

Renal echimpala is di ided into two types thit following chronic interstitial nephritis and that following chronic parenchymatous nephritis A history of nephritis may or may not be gi

Absort of nephrits may or may not be given as case of read clampan. Yt indrequently created as case of read clampan is to indrequently created as the control of the contro

decrease becomes more marked as the toxicit Creases Nocturn is usually present. There is slight or no ordens. As pregnancy dvances especially during the 1 st four months, there is cons derable mcresse over the a erage high blood pressure for the patient. The systolic pressure commonly rises to between 200 and 300 mm After delt ery the drop in pressure is not great, the high a crage present before pregnancy being maintained. Cardine by pertrophy is all ave present. There is tendency t cerebral harmorrhage as well as retinal harmorrhage and optic due trophy. There are pt t be con trances beadaches The blood examination usually shows an increase of non proteid nitrogen. The unc and increases first, then the urea, nd last the creating, part as in uraemia. Before the onset f convaluous abjective agus perticularly amaurous give arming These women frequently mucarry or an birth to premature tillborn infant thout con valuous After deli ery all the cardinal symptoms

of chronic interstitual nephritis remain Renal eclampus due t chronic pareachy matous arphritis follow different course from that result mg from chronic interstitual nephritus smalls a history of nephritis f the tubular type In the severe cases there are typical symptoms of this condition before pregnancy begins. These conbut of lightly increased blood pressur a pasty com plexion, slight animila, slight ordenia the minary output, and the presence f custs and considerable amount of lbumin in the ur ne When the renal damage is slight these symptoms may be shent or too poorly developed t attract the notice of the methcal translant. The blood pressure at the beginning of preguancy ma be so little abo e normal as to deceive regarding the presence of renal drange The pressure runs the t pacal curve of lexicity as true eclampsia, ret ming t the nor

m I for the patient after reco ery. The pressure does not rue so high as n the other forms of to zens d t the peak attains level which is lower that that of true celampia and much lower than that of true celampias of the glomerular type.

Gelema is the most prominent sympt in I this type. If I to not present it the beginning of pregnancy it popers during the first few no the Ursally it begins it the feet and gradually need the truth. Gelema of the fac in dhands develops as the conduction diances. As the Ladrey fail in function ansisters develops. Gel ma of the lungwapt is present under the After recovery there is gradual recorption of the fluid. During the stage of increment the ret itso of fluid in the body causes.

decided increase in eight. With recovery there loss of eight up t 60 or 70 lbs. Abnormal urinary as mptoms are also present at the begin ning f pregnancy Serum (bumin is found in vary me quant ties from trace t ery beavy deposit As renal insufficiency dev long the percentage of albumi gre th increases. As dedema develops the output of urine is decreased. Casts are found in considerable umbers. At the stage of greatest in sufficiency red blood ells are usually found in the urine Phenokulphonephthalein tests indicate ery low renal functioning capacity cases albuminurse retinitis develops. There is t ndency for pregnancy t nd prematurely Recov ery after the termination of pregnancy leaves the patient th characteristic symptoms of parenchy matous nephritis

It is not also possible t distinguish the two types of rend eclampias. Cases of true celampias are difficult t differentiat from read relampias because they come under the bearvation. It to obstetrican at the beight. If the disease, but true eclampias is not difficult it disposed fore is able to follow the case from the beginning of pregnancy through above and the purprenium. The development of the tonic tat during pregnancy and the received in the control of the properties of the treatment of the purple of the properties of the them. It is not to the properties are very characcomments of the properties of the properties of the cent to prevent convaluence.

The prognosis is alw yi graver when convulsions and coma derelop. Woneyl recovering from convolutes services return to their normal ply neal condition without impartment of accular or renal function. I ture pregnancies are not—bject to celamptic tooreans and should terminate favorably for the mother and child. The fetal prognosis is grave even when convulsions do not occur.

Proper prenatal care will prevent most co vulus secures and almost chiminat maternal mortality. Individualization must be the shibboleth in the care

fall toxic cases in I to pregnancy. As soon as possible the type of t welts should be determined. The care follow the bnes of prophylads

CHD B MD

Davidson, IL J. A New Procedure in the Trent ment of Echempsia. S rg G acc & Old 19 1 TITL SO

In this article the thor presents dditional evidence of the value of giving large mounts of fluid by mouth in the treatment of eclampaia When turk go en by hypodermoci me it adds

to the stagment supertone finds already n the tis stres and to one spaces is absorbed slowly indireaches the fiver nd kidneys (ractionally When go en by rectum it is slowly absorbed, I retuned, enters the immorrhoidal and inferior mese term circula tion from viscers with poor absorption and preses only in part by a y of the portal. Water et en by intravenous admini tration is dissemin ted through out the systemic circulation reaching the portal circulation greatly diluted and in fractional parts after having pused through two sets of capillaries those of the lung and those of the splanchase area Water gi en by way of the tomach is brothed di ectly into the portal system and conveyed in highest concentration to the li er judding the greatest amount of electrolyte in highest concentration is minimum of time. It is a men ficant fact that in health. as excreted by the kidney more promptly if the et en by mouth than I given an other a further tody of the brochemistry of t t ma be found the tat is not easily excreted by the kidney until it has been acted upon by the liver by you the portal circulation. A surprisingly large quantity will be sumulated in brief time. That most of the water taken by mouth is absorbed int the portal circulatio is evident from the fact that boxever much is ingested, the stools do not become aters

The a thor treatment in postnartum eclamosta consist in first at ing a large dose of morphia by hypodicante injection, 0 5 t 1 gr repeated as indicated I ry four hows t g bters of water is ustraduced into the storms h through the t he the birger quantity unless sign of etching supervene in hich case the tube is quickly theirs est tuon or vonuting has never occurred a the author care and he has an or go en less than liter I some instances the quantity has approached

hters In t tal of more than sevent gr ges be has never recovered drop of ter introduced four hours previously. One t one nd half ounces of Epsorn salts is go en t ace in the t enty four hours and to gr of potassium acreat and citrate or some alkaline diureise is distinstered with each greage Excess bedelothing artificial he t hot nacks, rd bleeding are all discarded B th method described, persp. tion is obtained more promptly and far more expensed that by the old procedures

The surplicity of the procedure makes efficie t treatment possib in the poorest home. The flat alence is combitted by means of coems, pitation hot stupes, and enemate. Carchae stimulation is gi en il indicated, and spinal puncture is done il stron is affected and the evergrounds show orders of

the disk. In cases of prepartum ectumese control sions the author regards it as advi thic to use the duodenal tube as the stomach probable will not retail 11/2 liters of ater tooks while it is en ensy to introduce that amou t int the duodemm in

ery short time. The tube my be kit as as if attendants can prevent is withdrawal

In the series of t elle cases there er no mater nal deaths. One child was lost because followers the curvateurs rection necessary for its delt en the physicisms ere so intent upon the mother that the failed to go e the nurses explicit instructions regard ing its care. They child died after a convulsor when it as t enty four bours old CHDATAD

Vivesey R. D : Uterine Fibromyeranta Complicating Freemancy Limited Med . L v. 774

The relative frequency of uterme fibromy orbits is one to every eacht. hite women and one to every three colored women. I thromyomats are probably one of the causes of tendity. The interreview t cases of fibromy onto complicating pregary

women with prering abromyomats couple cating pregnancy have no symptoms, but as mod of those in the series sought advice on account of ill bealth, the percentage ha ingapitoms was rather high Pel ic or los bdomisal d scomfort was the chief complifies, this being present in 75 per trut

Occasionall it is impossible t stablish the diagnosa of earl pregnancy in the presence of terme tumor. The importance of a careful autory of the menstreal flow and of the repodity of enlarge ment of the tumor is emphasized. In cases of don't

waiting policy is recommended. The effect of pregnancy on abromyomata are mentioned, asserb an increase in size with occasional incarceration of the tumor torsion degeneration, to The effects of fibrom omata on pregnancy may be mucarrupt

harmorrhage, dystocia, or poerperal co-apheations The treatment of these cases is expects t and Expectant treatment was given in \$4 oper to per ent of the cases, report of which records se enteen miscarrages ten prem ture labors, and thirt six living babies. A follow up of these cause ev aled that onl seventeen had oper tions for the tumor after confineme t. The operative treatment sachuded myomectomy m faitern raves and sarean or Porro caesarea operation in eleven cases There ere seven hysterectomies, three on terr containing macerated fetus to in cases in which pregnancy a suspected but not defaut I diag nosed until the terms controlling a degeneral d turner had been removed and opened and two is ses in hich pregnance in not suspected until th termor ad terms had been removed From January o t Januars o there were 4 654 terectomies for benign uterine tumors and 741

myomectomics on non pregnant utera

The author draws the following conclusion-

Most omen with fibrom ome of the uterus pass through pregnancy and continement a thout all rin

ing symptoms and may be treated expectantly A careful history of the men trual flow ıth special note of the exact da and description of the hat menstrual period, is if the timost diagnostic

exportance in the examination of women shromyoma of the uterus especiall if the t mor a calarging rapidly If there is the least doubt concerning the po-sibil

it) of pregnancy the chagnous should be deli ed for several weeks or months if necessary surptoms are su h that del y is da gerou

An operation for fibromyom | f th uterus asso cated ith pregnancy is sometimes indicated before the period of tability. This may be an indominal exploration or myomectomy Laploration f this type of tumor might be made mor freely in omes. tom) a sometimes defin tely indicated and the in odence of macarn ges following t is not undul high Hysterectomy is rarely indicated before the period of viability and hould be resort dit oals when the symptoms are lurning. It has not been accessary t ad se hy terect in prior t the period of inhility in any case which dugson of abromyoma complicating pregnance with hving fetus as established

The operation of election bert operation is indicated is Porto-cress can or cres re 46(1)(0) at term

Arey_L B. The Cause of T but Pregnancy and Tubal Twinning Am J Obs G acc 9 3 63

The production of time, sep t or co joined and all non hereditary mulformations of organs and purts are reducible to a single usat f ctor minely properly timed developmental arrest This generalization const t tes one of the most not able contributions t modern embryologs

The fertilized owner ordinarily t kes

more in to passage t the terms. During this period it does not normally become the hed t the terme tube. Any change which delays it in its progress favors total pregnancy. Impediment include be normal di erticula double t bes kinks g f the t be through adhesions, dherence f the mucosal folds (followlar salpungste) epithehal diverticuls, and im parament of the citated cells. Del y ma occur also from magnation from the opposit ary Since tabel implantation is definitely amount d th pr ording unfammatory changes, t follow that the aracosa has been injured but t the time implants tion is possible the inflammation must be largely healed After the ownm is taken up by the mucous membrane at the outer end of the tube, taft varies When there is impairment of the chated cells it may be delayed in its progress until t be comes too large t pass into the uterus through the surrow portion of the t be In other cases it wan ders into blind pockets or epithelial divert cula

More commonl t is transported to the middle of the the here inflamm tion and followlar ral rangitis – re-most common and there becomes lodged because the chated cell or corry it no further

Whe blocked the ov m may attack the tubal will I the meantime it has itained a later at ge f des lopment than is usual it implantation Therefore if su h delayed imple tation occurs a th the establishment of tardy or inadequat rel tions at the critical moment for twinning, t mbryonic axes assert themselves, as in the fish, chick and rmadillo and monocherial twins result This sequence of events is assumed from the pplica tion (Stockard discovery) the known condition of the tibe and oxum in that pregnancy and helps to account rationally for the preponderance of single o um two pregnancies the tube as compared th the terus

The production f uterine monors gotic twins and monsters is doubtless closely liked a th, or even indirectly dependent upon the same tubal conditions. A nearly healed o tructurally modified tube may delt or the um t the uterus, although tard inflummation of the terms mucosa lone in a produce the same result. To what extent these factors operat separately and in combination must main unsettled

eck or

There is demonstrable frequency if fully impi ntation in tubal pregnancies. Under such con ditions Mall failed t find typical decidua hence the possibility of checking bemorrhage by the forms tso of dam bet een the hos of the all and the eroded mucosa is foregone. Numerous harmorth ges reals which form old clots bet een the villathe best of specimens frequently show such extensi bemorrhage around the chorson and such marked degeneration of the illi that it is wonder the nm continues t grow normally Permanent or tem norary setbacks occurring hile the chorio is street gling to ercome natural deficiencies in its nidus are sufficient to account both for excessive tunning and for the observed double frequency of malforms tions in these specimens over the terms group

Studies of normal and pathologic tubal implants tion convinced Mall that the primary care ti e factor f such monsters as f ulty implantation which prevents an dequate transfer of utriment Stock ard erees regarding the primary element but from his experimentation is forced to behev the ctivat ing cause is lack faufficient tygen

E L COMMIL M D

Hawks, L. M. Immediate Versus Dalayed Operation in Cases of Collapse Following Ruptured Ectopic Pregnancy Savg Gyace & Obs. 913, 1117 J

The proper tim for operatio in cases of collapse due to ruptured ectopic pregnancy is still in dispute Of \$24 cases of ruptured ectopic pregnancy reviewed by the thor 87 showed collapse One hundred and thirteen of these urgent cases were operated up on immediately Of the remaining seventy-four

472 IN.
satisfies ten died of hi morri

patients, ten ded of hamorrhage unoperated upon Three of the ten, through errors in diagnosis, did not recel e regular pilliath treatment Omitting these three, the number of deaths in critical cases

treated expectantly—as set on (o per cent).

The Medical Enziment's Office has recorded twenty one of: the from hemorrhage in the last four cars. The records of the Board of Health of the Borough of Mishituan above that in 1931 there were twenty deaths from ectoper greations, and that for comparison of the strength of the second of the

dust operation to prevent it

and by a consequence of the cons

Good F L., and Richards, T K. Ovarien Prez

The nuthers patient compliance of pain I between althouse and loss after temperature peake and blood pressure were normal. She shad had one perfous fall term programes. Amenorshers be pain thatteen mouths before the peak that the peak that the peak that the peak that the period had been regular. Fare the performance of a tumor the size of size of seven mouths programary in the lower and protate of its deboner. The case of the processes of a tumor the size of size of seven mouths programary in the lower and protate of its deboner. I be cerved as not taken up and the or

The specimen was slightly out man measuring 2 by 18 by 11 cm and righter, 500 rm (5) lbs.) The fetas was well developed. The fera hand, and finger mile were perfectly found and there was colored of fill defit or other embryone structure inducting premiumer. The placers was consistent inducting premiumer. The placers was sufficient to the inner all of the runs at the end opposit the bend. Microscope bections taken from many places those of softing but them forms through such part described.

hites, and a few dutended or artin folicies. Joses series of sections a cross section of the wrohe at found. The tube was intact but the finithated reference of the words of the section of the way for the period of the section of t

LABOR AND ITS COMPLICATIONS

Haynes, L. W. Acuts Complet. Inventor of the

Uterus J M hyps Stari M See 9, 1211. 5
One of the important precisioning causes of acute complet inversion of the uterus in to be found in the fundal attachment of the placents, as far suggested by Thorn. Hay nee believes, however that too great emphases has been given to errors as the conduct of labor for if undue pressure on a reluxed uterus from above or too great traction on the cord were of great importance a would hear of summer causes than a to. If it figures the author has collected are of a y also they show that the conductor is processing more freepent in spate of conductor in becoming more freepent in spate of conductor in becoming more freepent in spate of con-

timed improvement in obstring technique. Inversion has occurred twice in subsequent labor, in the same pattent when all precautions are taken to present it. Carmithers reports two inversions is the same acomes in conceptive labor. This could lead to the assumption that in some cases there was secret predivations.

The chappens of acute complete laverage is not difficult. It much the process of invertion is complete in few accords flow bleet; e.g. stylent by an I the case reported by the their the patient as under other assumbless but the made served hup cries as if in great agon). I cases I mill subscut and incomplet in crision has imprior

as not often present. The second of mpters is that of shock out of all preporties to the amount of those from the tribute becomes small and querk. Some inters tribute becomes and last did not become in a state of the state is internal entered.

I earlier years bout three of every four women to affected died. More recently most riters give the figures as one. four

The thor considers the treatmet ode separate bradians. (I has about a series of (I) hen shork in sort series of (I) hen shork in sort series I we ret about he removes the placental of the tacked and per he present the terms into the goan. The harmourchape is atopped by het saline doods be by ning to care painting and of necessary to construing the term just below the err in with pea of strille rubber 1 hars. The usual transversa for ploods is then prives. When he pays he railled

selficacity replacement is attempted. Deep other narshess should be used. The lithotomy position is helpful. The left hand is placed over the lower showes while the right hand is passed into the vagua behind the uterus, grasping it and gently pashing ups and a d forward toward the left hand if accessity the pressure is kept up for ten to a supplementation of the properties as a bag or repositor. When these fail, go ne cological procedure is necessary.

When shock as slight, the uterus abould be eplaced at once if possible C. H. Davis, M.D.

Waldstein, E. The Classical Conscern Section

under Local Ansesthess with Temporary Frastion of the Uterric (Kassicke Kassickhalt in Lotalanaeshess mit temporacer Fization des Uters) Was His Welmelt 9 3, x x v 8 3 In 1914, Traugott and June reported on cessarean

actions they performed under local anaesthesia No doubt this has been done frequently since the but has not been reported in every case

The athor reports three cases in which the gen eral condition (severe pulmonary tuberculous in on and decompensated mitral stenosis in two) made t necessary to perform cassarean section under local anasthesia After the dministration foo gm of morphise the abdominal skin and the parietal perstoneum were infiltrated with 50 to 60 cm f 0 5 per cent solution of novocaine with the addition of few drops of drenalm solution. It is ery important to prevent the protrusion I the abdominal contents during the operation. Therefore the utho applied tenacula to the terms before morning t as in this y he was ble to close off the wound in the abdommal wall as if with pad and to prevent the entrance of amnuotic fluid int the bdominal cavity and traction on the uterine ligaments SCHUDERT (Z)

NEW BORE

Greenhill, J. P. The Association of Fetal Monstroities and Deformities with Placents Previa Sury Grace & Old 9 3 xxxv 7

T fifteen cases of the association of fetal mostreames with placenta prievia which he found reported a the literature the author adds six thers, including to of his ow.

In explanation of such cases Greenhill states that for some reason the ownm is implanted in the lower sterine segment, that when this occurs the relatio between the placents and the fetus is faulty and that the faulty relationship is responsible for the arrest of development

Threen of the twenty-one monsters mentioned in the article abo ed cranal or 1 tracramal defects According to Mall, the heart or the central nervous system is the first 1 be destroyed in the embryo In conclusion the statement is made that since

fetal m miters are not infrequently associated with placenta prievia, it is advisable, when creatan section is contemplated in cases of placents prievia, it tempt to ascertain by physical and X-ray examination whether the fetus is deformed or not

II W FDA, M D

Weverinck Intraperitoneal Infusion (Ucber mira pentoneals Infusionen) Destruis med II ch schr q xivii, 577

The author used intraperatones infusion at the Children's China at Dussidior for the quick administration of where I water impoverabled unslings Seventy-two maints were treated in this manner and more than on injections were given. Suity of the infant ideal of with recovered I once cause conditions for which the treatm. I was give was in most case severe in treation in most case severe in treation in trophy and divastinctly in definition of only infusion was chosen.

In the intraperationed infusion the sit funge, too in the modifie or lower that f | Interference too in the modifier of lower that f | Interference that is the model to the spin of the illum. The skin is during facted with shooks, either or some A 100-10 root can syrings fitted with long impetuo the with a point cut off short and rubber tube or connect sing piece is used. The skin is not divided with scapical or sensors. The layers of the belonmal all are penetrated by slight pressure. The fitted in preced in physiological skil sol too. Kinger's solution or less frequently a pre-cent solution of the strength of the solution of the

Although it does not all ys save life in case; it severe trutonal disturbances, the thoreheaves that the interpertuneal infrance of fload is to be preferred it is ubcutaneous dimmisration because of its amplicity certuinty and painlessness. The danger if peritoriate is alight even in the most severe cases in high the resistance of the body is loss. Strict separal, box-ever in sensetrial.

DYNTAG (Z.)

GENITO URINARY SURGERY

ADRENAL, KIDNEY AND URETER

Harmer H. A Case of Bilateral Subacut. Suppurative Facumococcic Paraner britis (Lin Fall von beldereniger, subaluter nitrater Paraner/britis norupococcics) / locks f. and Chr. 9.2, 21.

The uthor reports case terminating fatally in which there was moderate fever associated the positioners of the face, dy sports, crimp-like bedominal pain, and amuria. Cystoscopic extrumnation showed an obstruction in the left ureter the right ureter as recently.

At autopsy gelatinous, support the saliamenation of the capsule was found round both kidney, there was also pyelonephinis Pracumscocci were the cause of the amusual type of suppuratio. The fact that the process ran a insideous course for months was probably due! the nature of the excitant

Sears, N. P. A New Method of Making Unsteropyelograms. Serg Gyac & Olst. 9 3, 2221

774

The d s tages of the technique described ar that it is umple, the ureter is filled from below likewit disturbines of its natural course by the passage of

the catheter and reflux of solution about the catheter is prevented.

A is spinile about 5 mm in diameter is placed on the shatled-up enther about 1 i yen from his tip. The catheter is thresded back through the systemes with the until vary of passing at tips described by Harris and Hamma, and the incrtament is introduced, the cruiteer with the beth being passed into the unrier be studied on that be the being passed into the unrier be studied on that he shatle the catheter is that persent of the cite of the sharle the catheter is that persent of the cite of the sharle the catheter is the present of the catheter increased to the catheter under the back of the Tip patient is shoulders are clearled shightly and a 1 by 1 J. vary plat applied under the back so that it includes down and I as agic of about 1 i 1 is degrees. The areas of plays are then grandly filled in the usual manager

If the patient is it on he had the opport turns does not fill, praintly became after covering the does not fill, praintly he they after covering the does not fill, praintly to the print and turns of directions, probabing fearlier acceptances to the The Trendelshorg position premit the theory I fill upward at these discretions. One of the praintly the probability of the praintly the probability of the praintly discretion. One of the beat hearders, another calebor ray to probability the probability of the the praintly of the probability of t

By this technique accurate information regarding stricture or kink can be obtained and obscure cases of pain can be located CR, O Chowart MD

Fallerton, A. Aches and Pains of Renal Origin
Canadian M 441 J 10 3, 224, 85

The author reviewed the records of our 1500 excessive existocopies: I determine whether the condition of the ladner or unrete or the site of the feature could be certified in with pain of a particular type or distribution. He found that the most retent disease of the kilony may not case or pain whatever and that on the other hand, were sightly pathology may be associated with above to learning agony, also hast the same conditional existing a sight pathology may be associated with above to exact soil, slight disconfiort in constanting a sight pathology of the condition of the conditional exists of the period of the conditional exists of the period of the conditional exists.

Pressure on the normal ledney produces pain wis a neckening character which is less were the winter to the of pressure on the testing of our They do and surely are highly senditive Dastension of the privan identicity pushful. Certain reflex photons on, such as suexa, conting, paller and cold weats associated in distintance of the police or reportation, commonly companish the pain in the result police. In particular, paller and the result police. In particular, the continues of the stakes, of surely are yellow.

Figure and Imbard classify renal pures follow () that due is mechanical or transmit crosses such as distresson of the meter pet is, and collect, of transco of the pursech man the capsole by congestion or ordens of the helper. The contact sitdingering of the peticle of the helper, compression of two matter) of silverson of the kelney of two matter) of silverson of the kelney of two matter) of silverson of the kelney and callect, as in proceptions known of the planard callect, as in proceptions known of the parsership as in the silverson of the kelney.

Paper of tribard are of the opinion that retail pair sizually areas in the renal pell. In a case of calcides, by d. explores in normalist is betterful or colors cancer of retail harmatics. In the calcides the cancer of retail harmatics betterful or the trefer a manifested by retail cole due to dust a cancel the pell. Pair in the shorty melt in gentaring the calcided of the calcided of the factoristic below. But his in lectors explain activities of the calcided of the calcided of the section.

The fact that the most arred pathologic onditions in give he limo-t identical symptom suggest that common sine may be present in all,

mendy distension of the renal pel is by obstruction The obstructio may be due t calculus, a kink, thockened ureter or blood ck.t The intensit of the pain is no index whatever of the severit of the lemon, very shight kink of the ureter may produce more severe pain than an extensive hydronephrous The direction of the radiation f the pain is usually toward some portion of the lower extremity but sometimes to the groun, the testis, o labia majora Not infrequently the pain radiates to the opposite renal remon, and occasionally is felt solel prenumably healthy aide. In the so called Dietl. cales the par ma be due t torsion f the pedicle haking of the areter or dragging upo the pylorus all bladder or other belominal structure. It mabe suggestry of an acute belominal condition with A typical attack of enal colic is usually easy t charmose, but occusionally the urreon will excounter cases in hich every evam nation fails to make the conclusion certain. This suggests that in exceptional cases extra renal conditions ma be responsible for colic similar t that arising from renal causes. I many cases the pain of enal origin must be looked upon as referred pain its distribution not necessarily giving any clue to the location of the lesson in the urinary tract

Abdominal examination will reveal displacement deformities, or enlargements of the ladnes on 11 mes in the renal region tenderness, rigidity or artes of hyperseathesia. Rectal or against examin tion may locate a calculus in the lower end of the weter thickening of the meter tenderness, or ther absormanty Negativ unimalyses do not excl de renal disease. A small aseptic t ne may be present is the absence of blood, pur or albumin in the urine la hydronephrosis the usual tests may show nor real terms, and at the time of examination arphrous may be blocked. The \ra examination if properly done, may eveal alterations in the postion, shape and size of the Lidney in dditto t opacities Cystoscopy may demonstrate literations # the shape, size, and surroundings of the ureteral ornices and changes in the hythm and character of the effine Ureteral catheterization ill show the character of the urine from each ards and any altera ton of the relative specific gra ties. The divided tokey function test a th inches carmine or phenol supposephthalem may gry valuable information The areteral catheter ill demonstrate narrowing or patency of the neeter and p elography will show the shape and size of the pelvis and calices, the preence and relations f foreign bodies, and the position, direction, and caliber of the ureter If these methods fad to establish a diagnoris an exploratory operatio ATT PR DECEMBELS

Analysis In cases of renal calculus the pain a frequent, severe and of varied character. Occasion, is used to the private of cristals of calculus the pain and the private of cristals of calculus Frequency of unnation occurs executly dump the attacks of pain and the severe thicks are ery frequently characterized by referencing paties.

Resal! berevisus In tuberculous of the ladner, pun is not cardinal simple if it was present in fewer this half of the author's case, and the there was multi) the learning of the ur ter as well as ery extense destruction of the ladner substance. The pin is probably due to obstruction causing in 10 pm in a probably due to obstruction causing in allow of more gradual data note than that occur ring in cases of tone.

Fights In p clust pain as of equent The cut cases are chracterized smalls by gov, fever vomiting pun and tendermens, and sometimes by pulpable we claim of the affected orgs; and sometimes the pulpable. The pain is usually more fixed and contain at its that occurring in cases if eachiliar and that the contraint of the contains and the contains and the contains and the contains and the contains the contains the contains the contains the contains and the contains the cont

coagula long the ureter

Il drive by us 1 hadronephrous the conditions
ar most is ocable for the development of rend
colic via obstruction and distension of the renal
pulma. A fequent history is that I pean and
tumor is the side often sociated with miting
Is some of these cases an anomalous renal arteria.

In some of these cases an anomalous renal artery viends across the urter lik. bow string constincting t and cause g obstruction and pain by diluting the renal pelvs. I some cases the pain is of recent descelopment, being due t kinking t the ureteropelvic juncture resulting ultimately from the gradual dilat too.

Resal tasses. In cases of renal tumor part may be enturely bent but as present in bout 60 per c. t of the uthor cases. It ranges in character from sortness drapping pain, or tenderness to ery severe renal coin. I most of the thor cases t possered t be due to blood clot in the pelvas or meter.

Useful kulars: Pain is often present in cases f mos ble kulney but as this condition is so often associated with the evidences of viscorroptous it is difficult t apportion the responsibility among the various organs. The diagnosis can usually be made by means of predography.

Other cases: It must be borne in mind that renal pain may be due to some condition of the bi dider or urethra as in cases of obstruct ve growth or structure if the urethra. Also the considered are certain rare conditions such as certain forms of chrosis replicitly, indirect, hydrated by it is a bick small cyste as sometimes passed, ther crists of the kidney and hoppeshot kidney.

Treatment. The treatment methods, I come or mo al of the cause when powells, but certain II defined retain neuralizate the userd methods are often either interfactor or excessive as Papin and with bard have pointed out. While decapstation exploratory and nephropersy nometimes faul! effect a cure nephrectomy is no drastic. Pip. and Am had ha suggested resection of the nerves of the kidney. Thus in done after careful exposure of the renal ped is 4 direction of the results.

C D Hours, M D

I normal persons and I persons suffering from thous diseases a thout resal lessons the mire venous la jection of o 5 gm of creatinin as followed by an increased e cretion of teruse in one hour mounting to three times that excreted during the hour preceding the injection. The total excretion at the end of to hours amounted the times that of

th hour before the injection In chrome perhaps the kidney fails to respond in this manner. In the cases turded the increase was less than 50 per cent. In number no increase II I M LAGRE MD Was poled

Barney J. D. Gonocuccal Infection of the Kidney J Led Q 1, 12 7

This article is based upon case of genocectal infection of the kidney which is of interest because of the emplet pathological and bacteriological study made. According to the thor t enty at en cases of gonococcal infection of the Lidner have been reported in the literature but in only four or fi-

was the kulney at ched at operation or utopsy Before coming under his observation the author' patient h d been subjected to an epichd motomy A cystoscopic examin tion was made because of pain in his back. Redaces and ordenia of the left urvieral orifice were foun! The arine obtained from the left kidney by preteral catheter aboved intra cellular diplococci 1 nephrectomy was done. The kidney was about the size of pullet eng The renal pe, mass thin and great! dil ted The areter as normal Recovery as aneventful

HERRIS L KREDGERER VID

Ball, W. G. Some Cystescopic Appearances in Therrollosis of the Urinary Tract. Sex J. 5mg 93.4.3m

The purpose of this article is to describe some of the pathologic changes which may be observed a the bladder in cases of granto minary taberculous The wibor calls attention to the extreme raint

of primary tuberculosis of the bladder Man writers draw the existence of such a condition and it is generally agreed that in about 50 to 90 per cent of cases of escal suberculous the primary focus of infection is in the ladnes

Symptoms sodiesting in of ement of the lexines are of slow development and ma be absent altogether even when the Lidner has been destroyed Is the fi at evidence of the disease it often distant ascorated the frequent mecturition the lebts t recognize the appearance of the condition in the bladder by explosespac examination is figrest in portance in the disease and especially in deter mining which kelner is at full

The author uses general arsibetic in hirs a cristoscopic examination ben a beroalous in m line fection is suspected. Il cantions again t over distension of the bladder in such cases in dr t prevent bervorthage and irrepushle daw go such as the highting up of latest lesion or the number tion of a secondary infection hich might rould from even slight trauma

I scellent albestrations are included in the article t show the arious posats made in the dicar in of the different aspects of renal tubercules and to demonstrat the character of the lesion in the early stages of bludder involvement

The earliest cristoscopic finding is the discharge of blood, pas, or exerons material from one or both preteral rifices. The author contend that the perpetence of hemateris ad py observed t the co-to-cope as coming from one kelney fully

matibes exploration of that Lidner

Broadly merking, the degree of in of creat of the bladder wall is an indication of the extent of the dream of the ladory. Ball does not agree it the general view that nationis often exhibit refer symptoms of execul critation prior to the apparence of bladder lessons. I his own cues he has senally been able to find a cit pr ben ruch at ptoms begra, although it does not necessiral exhibit the characteristics of a tuberculous lesion. He beheves a possible however that lessons of the lower end of the streter may got that to verked amptoms in the became of involvment of the Madder mucom

blackler are more or less fulls described. One of the most striking illustrations sho an loar found in the bladder of ma complaining of each timp toms who had been abjected to the removal of the right testacle for tuberculous disease several months previously. At the time this picture # made there as band podelut arrupal sexula under the at of the uleer. Attempts to prove that the ladney ere infected ere negat

The early and later changes of levous in the

Chetwood, C. J. The Treatment of Prelitie. J. (rei 93 87

IM EDF II M, MD

This ricke deals with the treatment of probit with proval man Attention is called to the lact that old salvarsas is of so lur. Mention is mad of nek pressouds done in Secker Kall S then d Remerk and thers. The technique is the usual method employed. The sol tion sed is

ireshib prepared in ec its bookd and distilled The erage usual dose no 5 gen of the drug 5 bequent dosage according t flect from as bitle as 5gm t much o 5gm The mber of doses is usu II four These re tal ar on timerals libertel du

cases ar reported a buch the firm of IK or + VD treatment graved II

Himman, F. Experimental Hydrogenkrocks The Manificance of Compensatory Hypertrephy and Disuse Atrophy to Repair J Im M

Experiments or facted by the Bor pot only ontinent the last has read recenstary hypertrophy effect a counterbalance after sealized nephrectomy but demonstrated also that a malateral diseases without nephrectomy an adds besil factor renal competition, is active in the final sastement residuation. Activity is part as evening the renal growth as for muscle hypertrophy Progresse inactivity leads's a dismo-renal strophy to the other hand, an overse belinning demond for the desired and, an overse belinning demond for wall be demonstrable in such cases if death did not court from read immifinerare.

The nemicance of renal revers power and compensitory hypertrophy and of renal competition and charge trophy in relation t reparative operations on the kidney is obvious. The poor regults of repair procedures in hydronephrous are not also ye due t technical failures. Attempts to repair a unilateral hidrenephrous when there is a complet compen mtory hypertrophy on the opposit side are always certain t fail, and if the diseased side has been great h marred or infected or the repair procedure is im perfect, success is not certain even if there is purtial compensation on the normal aide. In bilateral disease conservati surgery is alway and it is necessary to repair the two kidney two different operations. The second operation cannot be delived too long because the nitual reparativ operation may he e placed this kidney in such f orable condition as t allow t t undergo complet compensatory hypertrophy in which case atroph) ill surely result on the unoperated side LOUIS NECWEL M D

Nation, E. M. Spontaneous Healing in Destructive Pronephrosas Report f Tw. Cases Bull Bufule Gen Heap Buffulo 9 3 8

The strick is summarized as follow.

Totals are reported shown in cystoscopic, and adoptable rendence of healed rendence of active stricked read function and bearner of active striction. Both cases purchased the stricked shown are stricted by shown in a bearner of active striction. Both cases purchased history of severe compared by acute renal infection. The existence that suggests spontaneous healing of renal interest on both cases, with permanently reduced renal function and shown changes in the kidney trustice containing process of repair.

GREEKT I TRONG M.D.

Rempender O F A Hithert Unrecognized

Alode of Origin of Congenital Renal Cysts.

Swy Cysec & Olei 9 3, xxxvi, sol

T determine the cause of cought lat rend or its subtomated a mercatopic total of the embriogral development of the kidney of human fetures its feather than the subtomated by the prevence of mercon cystic results between the subtomated by the prevence of mercon cystic results between the subtomated by the prevence of mercon cystic results between the subtomated in the subtomated in the subtomated by the proper time and continue t grow t the

detracent of the discent normal tructures

Two F In MD

Crawford R II Polycystic Kidney S g G or 6:00st 9 3 xxxx1, 85

In a case of bilateral cysic kidney the author discovered hereditary tendency. The patient had three is and four uncles one was found to be a polycysic kidner on exploratory examination but a still all it three if the seven died of uremit due to polyce to kidney. I the put ents family, in which there were more children, eight are living but in a serial pulpable kidney turnor. Three of the latter had had kidney operations. The uthors but of the latter had kidney operations. The uthors are the form uremin following draubage of the

Polycystic kidney is ongenital and practically al bilateral H redit play an important rôle rephrection is not indicated, even though o kidney appears ormal, beca with remaining kidney almost in ruabl becomes cystic.

THOMAS F FINER MID

Kretschmer H. L. Echinococcus Disease of the kidner Sure G nec "Obd o 1 xxxv, of

Februare I the literature of the United States d Canada Kret-chmer was able t find only seven

teen cases of rehanocorcous with ladings in of emeit. The case reported in this article was it for of male force; it can of gravity and the region of the right ladies, frequency of unination part on unnation hematuria, and loss of weight fleres in promoting the one year goars than track of hematuria lasting to ecks. The day after this atta, the passed small fround both the size of the si

pea which be described as soft not containing amili particles of gra. 1. Two eeks after the first track friem turn be had second track, but ther had been none since then. During the year he hid had tied tilk is peal lasting for several day.

Asine and bladder cultures were negat Precoinciplescopital len "poeared us and one half mi tes on the right side and is min tes on the right side and is min tes on the left. The ladice, were not palpable or tender. There as an ecanophilia of 8 per cent. The rocat gen examination showed is don near the prepole of the right kidney. At operation this property of the right kidney is the prepole of the right kidney.

sposed t upper half as found t be occupied by firm mass so cm diameter which contained many small cysts * ephrectom as done Ten months after the operation an echinococcus

ten mouths after the operation an echinococcus fration test—th human cs t fluid—as negat The treatment of choice is nephrectom

Tutom 1 F MD

Cumming, R. F Leucopiakia of the Renal Pelvis.

Surg Grace & Obd. 9 3, xxx 89

Lescoplaki of the renal pelvia is rare. The blad der is more frequently in oil ed her, the ond tion is readily recognized by means of the cystoscope.

The normal transitional epithelium is replaced by tratified squamous epithelium showing v rious degrees of keratimization

The etrology has not been established Syphilm ard alcohol have a relation to kucopiakia in other parts of the body but are not related to its renal phase

The symptoms are those of related conditions and in ddition, the painles pass ge of epithebal meri-

Nephrectomy as ad used for advanced cases. I the case reported in this article the entire repal pel is as lined by a dry scaly substance resembling bran TROBAS F FIVEOUS M D

Stevens, W. E. The Districtly and Treatment of Malignent Turnors of the Kidney California the/ J.H. og gazito

Harmaturra, para, and a pulpuble tumor are generall recognized as the three cardinal mens of maligna t tumor of the kidney. To these fourth should be added, vir a haracteratic deformit of the remai petus revealed by pyelography review of 4 3 ca es of malignant kidney tumors reported in the literature Stevens found that hemsturm, pun, and entargement of the kidney were present at the time of examination per cent but my elography reveiled deformity of the kidney pel is or calices in limost every instance

m which twee used Deformation revealed in the pyelogram such as narrowing or displacement of the pel is 1th or without elongation and sairrow gof the culice- are almost at a characteristic of repul tumor Amgalaxition of the gastro intestmal tract by sir offation or by harram meals or enemata is often of great assistance in determining the location of an becomreal mars. Other aids i the disgrosss re the occasional presence of propintic cells in the sinne and the profuse bleeding hick cometimes follow the tranmatism caused by the areteral catheter

The diagnosis of the histologic type of a malignant tumor of the kidney is sometimes impossible but in many cases can be in de from careful study of the n mptoms together th the cysto-copic and roent

ecoegraphic and are As the progner of all malignant turrors is practicall hopeless athout operation, the kidney should be removed in almost every instance males definit metastases are found. Occasionally the \ra radium are of the after operation. If the fulty cape ie is of d it should be removed with the tidoes. This necessarily includes removal of the sepestentl caprale. The humbar or extraperitoneal route is preferable for the removal of small or me dum and targets and the abdominal rost for the remo al of large growths I all operations the renal run boold be ligated as far as possible from the mahignant critis mt the general circulation following the manipulation of the ladner. In cases of pupillars epathelions of the tenal pel a the entire meter should be restored a the the kidney as rule sine involvement of the wreter all occur later if it is not Locus Carrie, M. I. alre dy present

boer F The Operative Treatment of Cystic Dilatation of the Verical End of the Letter (Aur operatives But ralling der Utiegen Pretter tung des ericules Uniterender) Zuche f mil 10

After a detailed description of the discuss riction of to the dilatation of the sweet end of the preter Hurbaer reports a case in which Bactzner performed an operation consisting of the insertion of pretend catheter, suprapulse es t tomy loanstudant plit time of the cy tic prefer over the catheter remeral of the resulting flap of macross m rebrase, and suture of the preteral and recal muton. Recovers followed

Endovenced trestment by slitting contemption, or thermocragul tion comes up for consideration in crees of small, the walled did t toos athout complications in the bliddy or the upper urbary ras suges but in cases of larger dilatations, infection, penhrolithasis ad reterolithasis, the trans estat procedure is necessary. The riscle is supple mented by a bibliography LORDER BRUDOCE (I)

Herman, L.: Accidental Bifateral Occission of the Ureters J Led O Lie, 51

The case reported was that of a woman at your of ge ho usubjected to supravaginal hysterictoriv for chronic t bo-ovarian inflamm that with pelox perstonitis. Forty eacht hours after the operation examination she ed marked changes boot beth streteral openings, the becace of urine in the bi dder and obstruction of both areters a in above their escal openings. The pelvis was immediately explored. The areters were located on the rahic wall lateral t the stump of the uterns. The left areter as dilated t the same of the little farger. On following this ureter toward the bladder a obstract tion due t an encirching estgut hetture as foun! This ligature was cut and through minut incuses made t the meter probe as possed lat the bladder t demonstrat the patency of the lower was ment of the tube. The right areter. hith was dilated to the are of the mules fi ger, exhibited active peristaltic and reversed peristaltic was es-

bich go it peculia snak like setion Through manute ascusion probe detected a obstruction due to one ligature and an rack below this a second obstruction due t anothe ligiture. Ureteral cuth eters ere left porttog for drausage During con vales, nor there we no leakage of trime from the incurous in the ureter. Three month later the serine as portial ad sterile catheters pa sed casuly t cuck pel is and there as no explence of renal ar weteral dilatat in

From review of the hterature it evident that bilateral ureteral ox forion is rare. The author h collected and a balated twenty four cases. In 6 teen cases 6 3 per cent) the occhision was due t encurch g ligatures and in the the ereter were kinked and completely obstructed by the tract we of bratures. 1 t bens the sureter pletel abstracted to pelvic exide following the appheation of the Percy cautery and in two they

ver careht in vaginal clamps

Is biliteral cases anuria is usually the only sympten rejerable to the ureteral injury during the early starts of the obstruction but the nationt may oud were that as in the bladder prior to the injury The time at high the symptoms of unemia appear difers idely but is of no diagnostic importance as the treteral murry should be recognized long before their development

The obstructed preter has httle tendency to open without operation, and no mut noe of bilateral echanon reheved spontaneously has been found in the hierature Temporary occlusion due t clamp-mgs smally followed by fistula formation

The choice of operative or ther treatment for the relef of bilateral ureteral obstruction will depend upon the cause of the obstruction, the preference of the operator and possibly t some extent the time miery barace the receipt of the injury

The uthor gives a statustical analysis of the various operate e procedures which ha been employed and concludes that delegation is the procedur of choice The objection to deligation based on technical grounds is not well founded. Its advantages are (t) a lower mortality than nephrostomy (5 per cent a compared with so per cent) () better final results (complete cure in 75 per cent of the cases as

compared ith cure in so per cent) The article contains brief case histories and tatis-

H A FOWLER M D

tical tables Bersey J D. Observations on the Kinks of the

Ureter J Urel 93 15, 8 Barney has recently observed five cases presenting * process of renal or ureteral calculus in which definite kink of the ureter was demonstrated by th arcterogram as the cause I the symptoms Opera ton in four cases t correct this condition as fol loved by complete relief both of the ureteral de fermity and the associated symptoms T cases are reported in some detail a th roentgeno

grams made before and fiter operatio In the second case the ureter showed no bnormal ty when the catheter was in the k dney but the treterogram made when the catheter as pulled ell down showed a cry tortuous areter with a marked 8 shaped curve at point opposit the lower pole of the kidney At operatio this gulation a reproduced by muction of the wreter through a catheter previously placed. The deformity could be corrected by lifting the lower pole f the kidney out ward A modified suspension operation was done emag the cannot as hammock A ureterogram sude subsequently showed the ureter to be normal. This priters has remained free from symptoms

Barney concludes that these few cases demon strate beyond any reasonabl doubt that kinks or tharp and abnormal curves of the ureter may de clop in the mal or female on either side and an any portion f the ureter but usually occur in ta The third Such kinks can be demonstrated only in my terrograms with the catheter hing loss dosin the irreter, when the catheter is both it, it as a solut and obliterates the kink. These bnormalities re probably caused by tw. factors, namely mobility of the Lidney and lack of support of the ureter as egards lateral motion due t weakness or

berniation I to normal sheath

When the condition has been present for a conarderable time (years) by dronephrous of greater or less degree often athout infection is t be expected In the early stages the lank is not fixed in its position and there is no eccompany in dilatation of the renal nel is. The sympt ms are identical with those nroduced by renal or ur teral calculus. It is prob hle that permane t lterations in the course of the later by infection preter are induced sooper Because of this and because the continuance of the condition must invariably go inse to hydronephro ans, early operation should be ad used

II A FORLER, M D

Hunner G L. Conservatty Renal S (Cery Assochated with Ursteral Str cture Work. J Lest 0.7

More general ecognition of ureteral structure as one of the most common intra-abdominal or intra nel at lemons would obviate much unnecessary abdominal and pelvic surgery. Free kidney drainage through the dilatation of ureteral trictures will rehere umber I varied conditions such as mi straine and gratto intest nal disturbances which dely Il ther methods of treatment

Large h dronephroses sometimes even those high are injected may be cured by simple dilut tion of ureteral tricture and dequate renal drainage. Structure of the preter may be present eve though No cor 6 renal catheter reveal no obstruc Therefore catheters Nos 7 8 and 9 should be med. The pyeko-ureterogram also may fail t. giv.

the me essats information

There are thee t per of crees of hydronenhrous due t ureteral t seture () those showing equal dil t toon of the upper ureter and renal nel m and an apparent nele in the wreter few centimeters below the k dney () those with apparently traight ureter hich enters the kidney pel is abruptl near t lower border where hadowgraph fluids or tropped in the kidney and (3) those how ing (11) ade dilut too of the ureter abo e the stricture area and a relativel greater dilatation of the pelvi- the ureter tending t prolapse a th the Luines

Salt sol tion bould be used the first in estima tion of the renal pel it will not cause severe rescrion if trapped I scept the cases of persons patie ta who h drunk large quantity of water hydronephrous bould be suspected if the urine flow through the catheter steady stream A h nge of position a 1 sometimes to or drainage. Shadow graph find bould be drained off before the pa returned t bed Overfilling of th renal pel is it d'ingerous. A los functionating hydroory there are death a pain, despending to the formal testing the properties of the p

Herbit, R. H. and Thompson, A. Acquired Stricture of the Male Little J. J. of 1 3 21 9

The artife is better and a smooth File or stat pati althornal nuls the then must be there and brown a take to second a state grantal Je wrent or the ection are fre t t ς . the state of the s n I there ad hit mentld 2 I'm procts or makes I m instances in eluteratetta rambite er 4 h haled hah trateres TLE ber utertare of the - scult t 44 I won if a la se real come pe at te The g gs = g mully the g recuces and the doct of

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 reales: A meteropy elogram is accessive for posttive diagnosis.

I the a bors aperience a valuable diagnostic surfit the beene of perlitation in the normal portion of the interest as seen through the systocope. The is due to inflation they thickness and rarify of the extreme lower end of the meter and the number of thick level.

Lativi lef of the obstruction is recreasy is order to the functions of the Johns nay be preserved in the inflammatics proportion from the latitude of the lati

BLADDER, URETHRA, AND PENS

Corners, U. The Trentment of Entrophy of the Bladder (\ perpent del trattruent della er not della rock field al di h 19 Th

The that put 1 5 period to had triped compiler in trops of the bladder in haustess of the jumph are pub. Both meteral outers are visible 4 the con-1 of energy of more amounts at it energy to the child as best or account of the amounts of the second of the amounts of the child as to the contract of the amounts of the child as the contract of the amounts of the child as the contract of the amounts of the child as the ch

Alerce of the risal splaneter in such case he residend frantise. All operation tempt at automical and functional retioration. Incoming of ourse the chief factor user disconnive. Ill effect if overroome i are raised. One method use the chief tempt of the chief tempt of the chief temptal portion to the chief temptal portion to the chief temptal portion of the chie

cates. The soluted reter or the cature bladder all with it several openings may be unplained as it the interior. This method has been eithtened with the mortial as per cert in auto-ender cert. The mortial as per cert in auto-ender cree interior construction of the per cert in it crees treated 1 I soleries and 2 per cert in it crees treated 1 I soleries and 2 per cert in it crees treated 1 I soleries and 2 per cert in it crees treated 1 I soleries and 2 per cert in it crees treated 1 I soleries and 2 per cert in it crees treated 1 I soleries and 2 per cert in it crees treated 1 I soleries and 2 per cert in it crees treated 1 I soleries and 2 per cert in it crees treated 2 I soleries and 2 per cert in the contract of the contr

Other radical mersones are merel mentioned by the thor Legues plants method is reconneeded to correct the incontinent of in ofton rak. If alla slaps re turned in the forms tion of manny salts from suffection and death By dissecting off part of the bladder wall and using the prepore, a closure may be perfected which will permit the wearing I a urmary receptacle indexing the patient reasonably comfortable. The

metality of this procedure is zero

's in the author' case the testicles were ery
held, he turned up. Large flap of scrottum to cover
the defect and brought the penis through a perfora

ton in the flap A urinary cup was then need Krizoco Serrin, M D

KILLOCO SPEED, M D

Creaties H L. A Review of 152 Cases f Bindder Stone Removed by Lithotrity Universita Vel 1972, vs. 77

The contra indications for hthornty are

A stone so large that the jams of a lithoutit

will not embrace it

A stone so nearly filling a contracted or d

sensed bladder that the lithotrate jaw cannot be opened

3 Prostatic hypertrophy venical tumor diverbrahms, or complications which would necessitat consisting following the removal of the st ne Occasionally moderate degree f prostatic hy

pertuphly may be releveed by an urntating tone 4. The presence of stone with nucleus of such a by shall character that it cannot readily be freed from the lithorntee. Fragments of catheters wax, so the state of the state of the state stone.

§ Cases in which the t ne is trached t the vall of the bladder and those in which previous spention has been performed on the bladder or the

shacest structures

6 Stones th sharp foreign body such as a harps or knife blade, as ncieus unless the costoscope above them to be free in the bladder

Of 600 cases of vesseal calculus examined at the Mays Clinic a disprious. I tons was made by means of the most car in 345 of 440 (76 8 per cent) and by cytoscopic examination 1 445 of 45 (48 8 per cent). A positive disprious. I tone was by receipter-ray or cytoscopic examination or book in 537 occses (60 86 per cent)

With regard to the prevention of recurrence of blader stone the uthor makes the following tat

Roratgen ray nd cystoscopi examinations must be made after htholapaxy to be ure that all freguents are emoved

Infected kidneys should be treated by pelvic krags or nephrectomy if necessary and focul in fections should be removed

Stones in the kidney should be removed
 Cystits should be reheved by lavage and teach arrilant some

F Cames of retention uch as enlargement of the rotate or structure must be removed if possible if they cannot be removed, as is the case in the

there bladder the regular removal of residual was should be practiced

6 Directional retaining urine should be removed

7 Hygienic and dietetic measures benefiting the general health should be dopted

The use of ca dal anasthesis greatly increases the scope of histologary. It is essential to remember that the sacral nerves innervate not only the unrefurs and prostatic area but also th musculature of the bladder. Consequently som type of sixten apparatus is necessary t enco. the fragments of stone as the paralyzed all of the bl. dder is unable to expel them.

Lidd, F The Treatment of Fpithelial Tumors of the Urinary Bladder Chaste M Rec. 9 3, 2h

In this most interesting and oluminous article based on a consideration of 6s cases personally observed and treated Kold discusses most multiple the symptoms and the arrows operate methods employed.

If the case is seen early disthermy or well designed operation may remov all of the local growth. In cases of painless hiematuria immediate

cvsto-copy is indicated

Kidd has come t the conclusion that some blad ders have tendency t develop pipillomat which is inherent in the entire cpithchall membrane the neoplasms in such cases being entirely new tumors rather than recurrences.

Seventy of every copersons with painless hematura are suffering from tumor of the bl dder or

kidney

Occasionally two other symptoms are met with () pulled meter or pain no oe kine; caused by the pulling of the tumor on the ureter or blocking t, and () the cocked urethra, indicated by intermittent interruption of the tream funne when the tumor becomes caught in the entrance f the deep methra.

Of eighty patients ho came early enough for disthermy or partial cystectomy fort-one or more than half, are know t be all c and well one has hved elected very; and many for seven or eight years. It is probable that fifty fit eare all e and well

With regard to the differential diagnosis bet een umple and malignant papilloon the withor tates that be does not prove of removing portions of hadder growth as it an operating cystoscope for microscopic study. The risks and incomvenences in such a corner outs eigh any possible of antage t be gained. I a number of cases the supposit flow portions of Iring tumors with the Badder is sure t result in the implantation of fresh timorion of the protions of the bladder will. The determination as a whether the growth is malignant or beingin must be made on the basis of chincol findings if the best control for the protection of the basis of chincol findings if the best of the formal factors in the basis of chincol findings if the best of the provided for the provided fo

results are to be obtained. Expecial stitention is directed to the length of the history the size and pipearance of the tumor, the delicacy and length of the fambine and the peducle the appearance of the bladder in the report of the peducle the singleness or multiplicity of the tumors the feel of the base of the bladder through the rectum

or various and family la some cours, the reaction of the tumor to distherers. Some tumors which look maken treact at one I duthermy hile other hich airres introvent pro e refractors and even an open operation the latter real re-

tudh ren

mai ment Of t enty one cases traced by the author up to tore alactere abox no algus of any recurrence one n ne y are, three eight y are one see ny are, & e as y are four fr yours done four y are since treatment. It appears, therefor, that the tment ha distherms as as far more permisent result a 11 less and to go the t recurrences that the lid pen operation fat onlithed rat operates there was

tecorrence sit) are and 1 o) are tespects for fter the treatment the patient were then bleeted t an open oper tion are in 10 2 were all e and ell. Ther rul I garren p tents, to were t seed for a car or more presumed quite free from recentrent tel fit fertifulle t arrowe that they wer cured. These patie to ere conside bit of ler tha those usuall showing simple p pilorests. The oldest

man of it ha remained well for h) is slace thrent. The youngest was 21 years t e terent If a pupilloria is seen t be lying bigh up on the

upper all of the black gut to peritoscal s r of the tr towns at a the profice has been bured and expected In such cases it i saler not i me a anasthetic in order that the patient a feelings maserve a guidet the sevenity of the burning or elec

tre gulation

Kidd allow an laterral of at h 1 three weeks, and not got the four weeks, bet cen the treatme t roling time for all slough to sepurat . 1 rot except irmelor af cohgresthit occur lathe bedoes not arre ith Beer she carnes out the treatme tenen After at parent cure the patient should be mered t report at les tosce a text for en t score exemination. I tray any recurrence too artall I e me hamaturia, can be destroyed with the

at one treatment

hild had a new marking designed such is used the constant current of either the or so take and gives a minut gradation of current from a ap to at least I ampere or more. The spark gap is of remarkable consistency and be employed con tumoresly for fifteen in tes at a time a likeout ever With the mathiae it is pow bir t begin each application of current at ery low amperage and gradually locitive it to the maximum, so that maximum of true distherary heating and consequent congulation of the desper parts of the tunes is obtained lithout charring or gaming on the su

far of the tumer The author's conclusions are as follow

I cares of p pulloma of the blacker of a beaugn t) pe diatherm) as applied through the cystoscope hold out an excellent hance of cure sthout the and solp out we's tumors should therefore be con sidered a grave surgical stredementor

 I cases of papellon of the bladder of doubtful mal ganacy it is possel to for an expert ! obtain a certain number of curs by mean of distribute th ough the cystoscope Acceptation if dutherny far t has an adequat destructs reschould be fumor after there treatments to the most it should be given up and botal creteriors about he car

rive out 3 I care of malignant papeliona, earl papeli ferrous east somma and even ery easter niversiting e renorma of the filed er book for partial ey tectoris is decided ad reclatted let argery. It shou I ender the of I late enced operation absolute scept in a few holated cases. It is an operation of consider the technical difficulty and present a def late tikt M but ben sweredal ft kucht a harber perceptage of time cores than the other time of peration as it | tires, es are based on a firmer path of spec for I two All a set of partial criterions should be followed up at regular laters als by werea of costocoper eram ston

4 T tal evaluations has been readered almost obsilet by partial to tectomy distibition and I dam tre tore t It hold be reserved for cases of amiliade in I grant papellomate which def other treater to diformical emblecases of art tur-

croser a softme both westeral overalogs a Lieteros oun presents almost great nut t

total co tectors. If hea occessful, it pres en it is bed to a few far craftle cares at man be used

as preliminary t total o tretomy 6 Radium has not 3 t fortified its substitution for surgery but deserves the closest conditeration I the present tat of or knowledge it he almosty replaced total enatectory, that is to a y for cases in lack in tectors would have been considered formerly row prefer t ad ne achem treatment, ombined pethaps with open federation and deep reentgra ra therapy W should reuse to remai cont t th supply draining or lea mg alore to alled noper big cases. The blocker should be opened adone of t courses pursued, either open distherms or f iguration combined with the implies

tation of radium ematation glass tuber followed by deep roc tgen ray theraps and the cystoscop c polication of radium and disthermy Lorn Gene MD

fer & D. Julgura less in the Treatment of Affections of the Lover Genite-Urinary Tract \dr to Sink M / 1 114 6

The umpoler Oudin curre it is safest for fulgers tion because of its limited power of penetration The Box rger operating cystoscope is the best instru-ment in the deep wrethen an in trument inhost heak should be used. The high frequency current these destroying agent of the desired power which acts through carbonization or electrocongols 1100

If pain is experienced hen large blidder tumor is being tre ted the application in that are should be stopped for th t sitting in cases of smaller teson, few seconds of intermittent pai aret be impeted. Primary hemorrhage is rare. The patient should be fores arned that secondary hemorrhage my sour eight to ten days after the treatment clien banilins pyuna, which is usually present a site agaranted by folgoration for this aerillavine

stable. Retention of urine emitting from the stam on the internal sphincter should be anticipated and, if necessary dramage by means of a premisert stiff cathleter should be established for treat; four hours. In order to prevent perforation is absolute the attack should be made from the property of the tumor to its base and the treatment should be stopped when the approach to normal tones in undicated by reain.

The distriction of benun napillary tumors of the hidder is definite and devoid of danger. As the timer is still small, one or two treatments are suilly sufficient. The patient is not confined to bed said as extraver operation is rendered nuncees any Alahyman tumors do not respond to this fractional, a fact of importance in the different tail.

en Execute

George coordinates of the deep urestime and vessels seek, such as prunioustate, seeks polypood masses, and true polypos, with concountant unleston of the adjunct structures are menable to fulgoration of the adjunct structures are menable to fulgoration of the adjunction of the adjunction of the adjunction of the content of the content of the observation with the active dauthermic electrode with or discust the use of young a punch.

LOUIS NEURELT M D

Celeton, J. A. C. An Unusual Case of Traumatic Unethral Stricture, J. Am. 11 A. 9 1, hxx

The aim of all operative work on the urethranded by the complete restoration of function with a mammam of sour tissue. Cacatrical contraction along the course of the urethrain very difficult to receive the course of the urethrain a very difficult to

Percett and the chef on use of mappening results. It cases of recent unuse of the untiling poonpt specifies the control of the control of the property specifies the control the specified of extra sation. An attempt book be made to repair the rupture and ample strangs should be provided The after care descays constant and painstaking ttention if the matter of contains of excess sociations, which often leads contains and punstaking the contains of excess sociations, which often leads to contain a control of excess sociations, which often leads to contain a control of excess sociations, which often leads to contain the contains of a persistent period and previous the formation of a persistent period since the contains of the contains of a persistent period since the contains of a persistent period since the contains of the contains of a persistent period since the contains of a persistent period since the contains of the contains of a persistent period since the contains of the

Is ones of long tanding traumatic structure the such as ill be impermeable. Therefore the opertion such so that the control of the control of the star such so that is the control of the control of the top of the properties of the control of the starty of the control of the drained by perment tube. To year 1 ter an external urethrotom was done o account of a per sistent perineal tistula and complet - ringry incotinence. The fist is closed temporarily but the incontinence continued and later the fistula reopened Exam nation of this case then showed bro disca in the perineum tha fist la in the center Rectal examination re eak dinarked adhesions tions about the membranous urethra and the apex of the prostate. \ catheter as passed into the blad. der with difficult. The residual urme amounted to soo c.cm. The \ray showed large dilated bladder in which the opaque find regurnitated into the posterior and anterior wrethra. Whe the patient stood up the fluid dribbled at of the arethra Cvstoscome examination showed that the internal sphincter had bee torn completely through it the right side

Two operations were performed, about seven months part. The on alexence was somewhat tormy but perfect functional results ore obtained. The patient I it the hospital day first the second operation. All wounds were firmly closed and good tream of urme was readed at normal intervals. There no this later the patient reported that he as still well and had taken up his former work.

GENTTAL ORGANS

Barney J D Haines, E. F and Shedden, W M Some Results of Prostatectomy Change U Rec. 9 3 xlv 554

The uthors is undertaken to trace all the case of obstructing protests declarged from the Genti urnary Clinic at the Massachusetts General Hopial They believe that the results of protested in year too seldom recorded a d with a contribute the knowledge of what uthinately hypers to the project control of the control of t

r Persons than obstructing prostate ma live in comparative comfort for several years witho to operation.

Cancer of the prostat whether operated on or not, ma not interior with the general health and

ot, ma not interfer with the general health an ctruity for number of years

- 3 While the median pernical operation is frequently followed by extremely satisfactory results, it may and often does result otherwise and is outcome is not so dependable as that of the suprapular operation.
- 4 Incontinence of urine more or less complete may follow the suprapulse operation, but is less fre quest after this procedure than after the permeal operation. Unless the incontinence is very definite and well marked, i may be, and often is, mistaken for marked ingency.

5 The urme eventually becomes free from in

fection in nearly half the cases

6 Cloudy urine does not all ays indicate renal infection the bladder alone may be involved.

? The openpubic around all es me t bernis in but a very mall terr t ge of aver, almost all of them those of men who are delige hi diphysical ork

8 The general health of the p tient is generally much improved following prost tectomy

- o The size of the wrethe gradual decre es fter oper tion, but I get of this the smoe at Le unirfected, there may be no residual urior rel the pater t ma ha no subjective amptom what nn
- The oca protest astrogra test show officer se-I if number a resultgram per co em afterpros tat tom the t babb being due to litter deal
- age of the Lidery and improvement in the process condition 1. On the whole prest tectom is used no p provide h rge in the sex (unction

Locis Game, V.D.

MISCELLANEOUS

Otherse E.D. Sutherland C.G. Scholl, 1. J. nd Reuntree L. G. Reen genography of the I rinary Tract Duri & the I scretton of hodium lodble J in J i . ; 1

After it introduction int the body sed re lodele, buch a opaque t the rocateen r s, t rormall so eted in the same Under certain con d twos sufficient amounts of solide market present in the arinary trict to cust a roentgrain hadow. The sod um fodode is at yea either fatt, esously or by mout h

Interes alm as wate. The patient fint t gra of pot um lodule by mouth three imes a ly for t day la orde to determise whether there is I have regard to the drug II so ampliant of acute follow occur th i tr cause injection of t per ce that the is began on the third dy Nariou douges has been employed r ngrag from 5 to 20 gm f t per ent solution of hemically pure sodium is hele I most cases a dose of gm m be goven athout causing out and symptoms provided the solution is injected slow! When dove of more than 1 gm 11 m on. symptoms pre probably be use of ounotic changes receiting from large amount of the h per tenic sait solution

Saturfactory roe tgenograms of the bladder ere secured in practically every case the doses of from antai many l brood art l arr or org or 1 p s pour doses of sorbum fodade gave fase mentgeno gram of the kidner ad ureters in preoxim tely so per cent of the cases. The best rocutgenograms of the apper ursam tract ere bitained lith doses of from 15 to 10 gm

The time factor I important. The roentgracgrams should be taken one half bour one bour and t o or three hours after doses of \$ 10, and so gra respects ly

Idmin batton by month. The best results by this method ere obtained by dministering 1 gro of sod um iodule hourly for three hours and taking the roentgenogram from or to two bours after the List dose

If it blidler one is to be at hed, the adminis tr then of freen 3 to 5 cm of sodners solide athort previous preparation is all that is peressin. The rorntgerograms are taken three boars after the harst in of the drug

Preliminary control rocatgenograms ere taken before it aim pistrature of the sort um helice. I modum 6 tandard Cooling tabe was reed th 60 kllonolt 5 ma ardana rigedistince of 67 5 ers from the target t the plate. The time and f or two to right seconds according to the thickness

keyser L.D. The Meckenhan of the Formetion of trinary Calcult. for Surg og t mil.

Lri rs calcul result from absorral tree of crystal ne precapitation. Normal universal water travi ble restalloid in sol two because of the presence of protectin colleges. The hydrogen con one atr then les affect and term but his recondr) Import as Rainey Ord and hitterkehowed that Ikedal in ther in solution modifies the morphology of enstalling precipitates proctings ha ring them from no co leveral to a coaleverat t) per

ther tudy of tone formation b the feed re of mad according to the method of Flotters and a oliser greated that tone formation mir bedat (r) the excret on f CLY TO GO MAN of ers talker in ten I beyond the power of the artnary colloid to may talm cither solution or de protest of bolated single cryst is (a) deposition in the mount of protective collect in the urine or (1)

the precipitation of norm I collect or interference th their protecti acts to by bacterial executes or foreign colloidal matter present as the result of an

bootm I metabolum To first mechanism of thee formation is experi

of the p two:

mentally demonst ted by concentrating calcium talat in the urner by created abcutaneous in sections of normal butyle and a calcium bloode over period of da 1 nteres vilana is produced and ith increasing increme to the morpholom of the k metal te en tal hanges from non f ung to fus ng spherosdal form ad calculus formation has place the process being Icrale

The second mechanism mantch, the product us of defences of protects alked in the struct of animals, ha thus fa been haffli g However Licht taka percept ted phosphates od salates from tirure out by the extraction of colloidal met ter Schale aperimen in hich stones ere formed in rates by latting fibrinogen in the presence of freshly precipitated phosphates exalites and carbonates i also rated as indicating the signiterance of colloidal factors in tone formation

The third mech ism isnel the normal protects colloids by bacterial expelites or other foreign colloidal m tter his been more postnetly demonstrated. Sodium availate fed in abbut produced analium if the outshedron type, libert infection of the kidney of annuals thus fed by sears of titenancied colo isculta was crompanied by the change of the oxidate crystals to the consistence specialistic areaty. In several materials issue of cry tals took place with the firm too. If smate calcul. The author cite the experiments of Berson and Measer in such calcula were produced in implanting attenphenoce from the otime of patients and the state of the control of the critical calculation of the control of the control

blance of the urine that the deposition of futing ortatis takes place, stone f rmatio occurring as the result. The athor reports the case f pane t who had passed smilipla value calculi over period f jears and whose urine, when he entered the May Clanc, showed at pixel fusing apherous f knum oralat.

mio the urmary stream foreign colloidal in ther

back so interferes with the normal colloxial

Temmet C. E. Cystin Calculi A Complex Surtal at Case of Multiple (with Calculi I Am II Am 9 3 lext 305 C) time calculi are comparate characteristics with the case of 5 time label to the case of 5 ti

in 1916 Kretschmer found the reports of only 7 cases of cy tim at new neluding to of his own, those of tim box.

We to not Cummigham report one case of centin calculus in that it en fight una Morris is not a seven and Thompso there in 14. That of thum is consult bonal problems and the cause first in cake in a ellibors. Vocarding it Abderhalden the metabolism in these cases is a pointail. The tones may be in tuple of located is earliprotons of the armary tract it the sam time. C. it must ended the familial conductor of it it as compiled by I oland ten occurred in finites.

The thor report the case of meged at years who efferted thim the dragoosts of cut ppendicats and provisional diagnosis of existing at the operation moderately influence through the stones we removed from the agent written through an irraperational opening. Inother unusually large tone was found to the pel n. if the kindney but no furthe operat or it is about the through the pel n. if the time time the pel n. if the time time time time to the time time time time to the time time time time time time.

A gm bequent \ ra xamination rev kd one tone in the left kidney and t in the ight Later both kidneys or operated upon t diff rent times, all t nerbeing emoved The patie t made normal recovers [on I O'vrii, MD]

SURGERY OF THE EYL AND EAR

EYF

Whithem L. B. Pulsating Fronkthelmon, (w. J. 17 6 21 54

beven awa I pulsating e-ophthalmos four tr um the a 1 three awat recurs to reported. They were observed h. Whitman or h. colle gues I four of the cases the i t mal caret 1 it in a hested morthtoles month and populars of

f the exophthalmes per t the cavit ha ne I en pided in the int rim. I one sett at mal Ig ted a 1 H lited met 1b 1w pilled over the more rotif The seven h p tir I died of influenz without ha ing had) operato tre tment. I all the cases the dist es a

ymptom d parated fler if beatin 1 m in tarre cases is to up in two m to 1 in on

The I terat re on the subject is a B reviewed

especially il tiler to um, ed the moneye ph of de Sch ele ta and Hollow y Wale runn one has been givent the dire we kelley de Sch et its, and Il flow control it t the me red ophthalmes should be sed only whe utme defi its evening bet een the fatern i c total rt ra edithera ereou sin Che II I is not recognized a till some tim feer the inpury Ingelet reported COP hish w d ground thirty one month after the liters

Proptoses, pulsation thrill an objective pal bfeets bredt and creuen re the cardinal sempions. If your may be lestoned by optic orant

and trophy or m y remain perfect

The tre treest of these se t will reversed all methods being mentioned from sample pers un on the caroted to hightion followed by the later orbit 1

pretativo

In conclusion the thor states that he tion of the internal rotal offers the best result in pulsating exophthatmen from a true communication between the 1 ternal rould and the 6 emous anen, but recommend that the offsteral circula tion be prepared by daily compress in creas prior the ligition. Lie t is of the ophthaliale ris boul I then be done before other carotal hg tions A PRICEL WESCOTT M.D.

Armell W. B. An F perfence with Source Cover of Farrig Bady in the lychaff. J Jesu State If See 90 Mile

T cases of I have to the globe by small pieces of steel are reported by Small I such case the best libough opthalmoroenigenogram was negative scope examination revealed the foreign bod in the fundos Serond roe termograms in rack one also showed the foreign body kemoval of the terl was

full d by det charget of the retria and loss of i on Attention I called the fact that orbital moscopic as I mentgraper apic creammatives, healt he sum! ed t determine the presence of small for an indicate them. VILCE R SOFT MI

Chambrillo W. B. The Endermal Operation on the Lacker mal tac I lad an March Att a 1

i i y when the a thor reported eight cases of ea loss all per t m on the larbigmal sac lith one full are 1 h operated pun tea cases ith an fail or fre th prestoration of physiological f action is concerned, through his Il were free! of the Securitary operations was performed on thre we

The technique emplored without f West with I got modulication

preliminary exalifaction and and pathon per ent ovocaire containing a ri of نا هجايم t the dram a three used socuero h The first two incusers repealed at the for of the power and extend that a revealible from to p t the upper from the polit of attachment of he mille turbural and the lower from point opposit the free bor fer I the m I lie turbinal. For three ins turn the right agfed it are of Freer is cell gl. II ad pt. I. The antenor ends of the in sum te por ed by rice. I neckum made as I form d. possible d. carned. Il downs t. the home. The flan formed is elevated submiscoush, the persons in below of course used led and I defected

backwird on hunge betweenth mak leturbenal nd the sense man it held out of the fill during the emande of the operation by mall pledget of

The post mor kp of the dense accending process of

th openior in sills is then tracked with chied and grove watch the manil will fithe and is exposed Ib is who recommend by a fraction with probe. Sufficial thome is removed to ancover the sac lively in lmost t entire pasal spect. It the point probe inserted int the say through the canaliculus pushing it must surface tent like like tow rd the sent on A the sealed is then inserted bet een the probe and the later I usal wall the outer or free earl of he probe by g held b agend at or f etened t the forchead by st p of adhesis plater I has a possible tresect larger portion of the Loose purces in removed sub-sequenth be means of the am flest forceps of Concerned West dictors to t the completion of the oper tion the probe introduced through the en alculu and the acquist p sa boragent fly rat the nose restrictly adhered t. Whe the pulmurous flap is replaced to upper half covering the sac is

sected and the lower portion beld in position (or treaty four hours by light packing. Subsequently the nose is kept free from crusts until berling takes place. If desired, the sac is irrigated through the createdins.

Allpert, F. Industrial Eye Injuries. III sts M J. 913 xlau, 45

Allport discusses the prevention of industrial eye

Applicants for positions should be given a thortogic ordar examination before they are imployed bold central and perspicant views should be tested and accumination made for slight strabsmuster requirants, opaches, rendences of previous estimations and function and refractive as the media and function and refractive to the control of the following of several control of the control of the following of several control of the control of the

so that he may obtain proper treatment. The suther discusses in detail the proper lighting of slope. The cost of such lighting he gives as approximately \$i\$ of per cent. I man w ges liest shops have come to realize their spegies are

cucual A glass can be placed in goggles to correct a refractive error

Proper looks and proper protective devices on sandhons and reduce the number of ey accident and sandhons are consistent and a secredary as careful you may took as borrer may be consistent and the proper sandhons are consistent as a secretary of the property as exhaust your many the property has a state of the property for the property factor of the property factor

The so called shop oculast is one of the greatest because to eyeight as he attempts to emove f reign lodes from his and corness with dirty hands and

poor alternmation and instrume t

The upprs in certain industries should be ery carriedly reasoned or th led as their inhalistic for early causes blundness. These include the vapors of a first bearing used in the manufacture of amiliary of the comme used in the manufacture of amiliary of the scale of the manufacture of amiliary in a rectine in tobacco f ctories arretue, lead, or the amounts and wood alcohol

la conclusion the thor tates that office em ployees should be given refraction tests by comretest oculist T D ALLEY M D

Landolt, E. A Study on Strabismus. Am J. Ophib. \$12, vi., 93

Landolt attacks the question of strabumus from the standpoint of the central pervous system. If points out that the innery bon of convergence is analogous to the innervation of accommodation both eyes receiving the same nervous impulse. It is not sufficient for the images it be simultaneously formed at the foves of both eyes (con ergence), they must also be well defined (accommodation). The degree of congress and accommodation is inversely proportional to the distance of the object from the eyes. In hyperopas the same degree of congresse must be companied by greater amount of accommodation vortesponding it the degree of

hypermetropus he author objects to the datement that a person squints with the left ey and t the phrise "a left II beheves it would be convergent trabammus better t say The patient has concom tant conergent atrabamus and uses his right eve for five This statement ould be in agreement with tology of strabismus. H. regurds amblyoma as the cause rather than the flect of the acount and cites the f ct that cataractous eves do not become ambivoore but have good vision as soo as the cataract is removed. A right of long standing conergent strabesmus is himitation of lateral motion especially in the ey which deviates. This is another effect of strabumus

After proper lenes has been prescribed, the ccommodatio has been paralyzed, d stereo scopic exercises have been outlined it m; be necessary to operat

For the surgical treatment of con origent, di ergent vertical and paralytic strabumus and for con erg. t invulficiency the author recommends adancement and condemns tenotomy.

VIDEOUS WESCOTT M D

Pickard, R. A Method of Recording Disc Alterations and a Study of the Growth of Normal and Abnormal Disc Cups. Bril. J. Ophila. 9 3

I rom at dy of series of curve and frequency poly poin reported in a previous article. Fedard concluded that the cultargement of the cup in adult if without symptoms of glaucoma must be considered an effect f pressure and that such cases requir careful watching for the development of glaucoma. I thus article be outlines his method of drawing and recording the date and the cup. If ing dr in them, be uperposes a transparent celluloid plat marked off into r/jo in squares. Then, by measuring the size of the disc and cup be calculates the percentage of the article the entire due occupied.

In normal cases the calugement is toward the temporal side I purnary optic trophy there is copang I chrom gl scoma the enlargement of the cup is in all directions, remains concent, and reaches the temporal border first Cases of glucoma in which there is small cap are more painful. The draing of he due and cup as part of the routine ecord of cases is strongly recommended.

by the cup

VIRGIL WINCOTT, M D

CAR

Smith R. M.: Acute Aund Diseases in Children. Thrib 14 1 1 14 14 1

The athor arges the carel I ex min tion of the ent he of an ira he is propounced unumportant and also a rout se procedure in cracs of trace monia, hit cars typhoid, and the ext themst especially when there is an app rent religion be came frequently a relapse | caused by inflammation

i the med lie a Attentio in director to the directs of perfect of their tarrhal ariety, leads gito interference. Ith the bearings notion and of neplect of the support variety & for such court those intraction if

MICHWIS The important of I inchion of the dram ad,

when the does not me or oly mail deperat in омкимо hundgasd

Later J F 8 and A felicht C' The Operative Correction of Ear Defect by Epithelial I Lips (theret I muta der friedelit dent Ig thele alate | And | Hea Co 14

I cases of compile then end the laboral the ear a fin bich i luger hi ere third than the deured lobule and a s t o sem thet neut from the 11 of the neck below the ear rol | perc of softened Stent man the sure of him at is poled bet een the hi flap and the secondary ound at I obtain a impression of the ound surface. The text's unpresson is then rapped in

Thirtick f pl riche ay that the own brisce is on the outside an I the ruter of the Thierich dap occupies the t point of the impression which will be expect to the wound on it. The me with t tovering lepiderms then titted int the ound

e six and the edges of the graft re t red t

three of the wind. The Ment man is removed fier two or three weeks when the Th erack fun he become healed in I the way the contentry surface of the new ar lobule and the propoders defect are emered with epiderun Subsequent

only alight coursetse corrections are receivant I the correction of defects of the atricle a earl

lige framework from the with and weeth outal cartil grass used. The is post bl. shaped arreads atch first school so that it still not be mered subsequently, and I then placed in a prepared canal under the skin behind the ear. After three to four erk when the carthier he braied in the skin f p with lone I could be interest in sector mured through rained remain at the balling The Thierich flap he! t the bone which ha been

Leef from personteren 1 til restoration af the r by sie in the manner desembed, as mapression with tent ma i takes of the newl formed pard casin I this the secondary defect ad both surfaces of the new portion of the ext are covered with epitheham. The suitable large flap allow and below is then mot lived by methon and after freshers g of the sound is sutured into the defect of the ear so that the corresponding portions

of the beli and a tibeli are unued with the proper part of the mide

The enture uncle i also reconstructed ris cartilize from the se thand seventh costal cartilizes. The epubelial sale on her the cartility due flags is applied with their fent mit en auf projection cars one to be made. Thus is important, a the shreaten epethelium draws the new as backward If there and substitute the pretention of the flap the if p m y be directed free gradually with smaller I thehal mlars I letter al of three or low weeks. The procedur is shown in all trations

now to (7)

SURGERY OF THE NOSE THROAT AND MOUTH

HOSE

Natamon L N and Lipskeroff I B Perforation of the Naval Septum in Cocaine Smillers (Urber die Perforation des Septum nam bei (cusechrapters") Malasi kt J o

Among eighty-six cocume smiffers, most of hom were prostitutes, the a thors found only three ho dd rot ha misal changes due to the cocain exemt) eight they found perforated septum in two as ulcer of the septum, and in three healed sters. From a careful in estigation of sixty t cases the following facts were learned

1 The presence of the perforation as aknown to the patient

2 Is all cases the perforation in oh 1 the caridagmous portion of the septum. There reto other cha ges. The small perforations ere found, the larger ones oval. The edges were der smed The lumen of the perforation w frequentl

ectioded by an odorless crust 3 The sense of smell was preserved but it

times duralizabed 4 I four cases there w sinking 1 th nasal

The palate masophary x, and larvax presented to changes

6 Perforations were found even when the drug had been used only few weeks

7 The ages of the smillers ranged from 4 t 3) can

8 The dose was 1 5 or gr of cocume can tometimes even more. The snifting was included er of cocume daily for from two months to nine years. The erigs length of time was bet een two nd three ears

9 Of the sixty tw snuffers twenty fi h ent syphilis, fiv were in the prim ry or secondars stage and one had tertuary syphili. The rest er

not explainted

The uthors do not behave that syphilis was th cause of the perforation. Histologi, examination [the peripheral portions of the perforations presented though destruction of the hyaline rulage de pracratice changes in the connect tissue alght rephotd militration of the submucosa pronounced samm, and narrowing of the blood evel

thors conclusions re summ rized Ulos

I I tocame sulffers, ulceratio f the sentum desclops first and then perforation

Tr cocame perforation is localized the The rous portion of the septum and exembles the perforating ulcer of the septum. It hen the perfora to a white continue of the manal cartilage occur-Only exceptionall is the use I covaine p im

4 In the d guests of perfor tion f the cart laginous port on of the sentum the possibilit that it ma be coca neperforation should be born units id t Cora ne perf rations fith sentum in hould be given prominent platextbooks on hinol OE\ I TTDER (Z)

Bakker C and Oudendal A J F A Race Chon. droma of the Note (Lin where Chondrom der New Zinker f Lie and Rh of de

th t f I The "use reported perc om un in hom in the ourse of t are a tumor of the nasal sept m dev log d disarranged the tire aterior portion f the post. This growth mea ured obsishs 1mm Within t necrotic cay t measuring 6 by 1 1 a mm. The d renous wa ecchondroma of the sal erptum

Histologically the tumor ppc ed t be divided int um rou mall dets of cart liee separated li onnect tusue The base better was per bysline artilige Nowhere there an end leafi tion ossificatio or scul ruration. In th necrotic foci the onnect tissu maintained but showed igns f fresh partiall d old hamouth at high f brook infl mination were ted t diff re t post in the connectifth t mor

Dunham K and Ska lem. J H Sinus Disease nd Lung Infections J Robot 9 1 3

Of 389 p tients referred by ble li scian at be culous the thors found 5 per c nt t be suffer ing from som other infection and among these non t berculous cases the prim rs f cus out ide the lungs rule in the head. This observation has been so onstant the times ery case present and non t berculou I ag lesion the authors xamine the air innecs and t neils

inus d ase ma be present a th b-olutely no mptom referable t th bead of which the nationt re. Of the 3 to patient studied all reese ted nh we'd sens over the chest. The differential chest m de on the hass of tereo-corse \ ra diagnosis

plates of the chest. When no evidence of et e pol f of the active focus w monary tuberculosus sought by most careful of complet ph In extra tions

moto-

I cases howing definit

1 sign or ting t I ng infection different tion àl. task calling for every 1 scaland! her tory slable Ch ! d forement the \ra tot p ture of the best. The digot 1 hest pli bould be done by peril t

The rormal I mph f w through the I g which occurs from the purench m t rd th hil m acept for mall area immediat ly ader the plen

which may drain into the pleural lymphatics, has a vital bearing on the pathology and progress of the duesse. Of prime importance in the reading of an 1-ray chest plate, however, is a thorough under standing of the septa of the lung and their influence on the pathology. When an adult possesses the ordinary amount of resistance the leaons of pul monary tuberculous tend to become healed lesions of an adult type of pulmonary tuberculous are the result of repeated infections from without or within Densities caused by the pathologic changes of pulmonary tuberculous and above on the plate var) in their quality and degree, progressing from the least dense t the heaviest as follow (1) scrous exudate (s) cellular exudate (s) fibrous. (4) case ation (5) calcification. A thorough study of chest plates with this understanding all enable one t read the changes; terms of the actual pathology. Given an acute infection or infarct, the resultant densities shown on the \-ray plate will il be of the same quality because all of the lessons will be in the same pathologic stat

The bing bridges secondary to chrone sums inferten my be characterized as areas of exudate in the iring. Leaners located in the piece ill produce perfect chinacia pacture of incopract pulmonary t ber culesia with ferer cough espectoration, malaise from of weight, blood spirtung, and localized reliae over the pieces. The \n my picture may above definit localized desirtes, but whee its or more denuties

are present they are of the same quality

The presents of a non tuberculous lesion in the

here it is the description of the control of the co

The first step in the differential diagnosis of long diseases at determine whether the lesson is

lung duesses is t determine is tuberculous er non tuberculous

In any case of spacel estants, parallest bronchits, bronchiectaus, or localized areas of pneumonia, a search should be made for infection in the head or throat

3 The symptoms of incapent pulmonary tuber culous are the symptoms of a focal infection
4. A properly interpreted X-ray plate of the chest

to the most valuable and in the differential diagnosis of tuberculous lung lemons and acut infections secondary to simus discuss DA TO R. Bower, M.D.

Dahmans, 11 Osterma of the Accessory Nami Rinuses The New Contributions and Critical Collective Review (Under das Union der Nami asbonhesides Ewer and Bettracy and Artisches Samadriversa) David (Hall Asses Obreshald 9 p. 45

The author reviews thurty-ux cases of osteoma of the next accessory sheares which have been

reported during the last ten years. Two of his own cases are described in detail.

Dahmann s first case was a previously diagnosed ory large ostooms. Remosal of the tumor resulted in a cur in pit of severe injury of the dura in the excupe of cerebrospinal find. As the frontisions as normal and the music excity was not opened, there was no infection of the members

I the second case the irranoal of very small osteoma: I the ready of the laurus enhouse a previously healthy person led to menugate and death because there was so communication between the ound and the mail cavity and the menugate ere infected by was of the diseased frontal man.

J conclusion the author gi es detailed description of the pathogenesis, symptoms, and treatment of onteomata Bierrocurves (Z)

Meyer M Carcinoma of the Fehmold Been in With New Contributions on Ostflortion in Tumora (L Ler das Carcason des Sechena Mesecon Bertreepes zur Karchesbalding us den Geberschift wurften) Züsele J. Hof. Varan Olevzienlit

Among tive tarmsomata of the thmost bone observed during the last year there were three adenocaremomata, one caremoma commune, and one pa ement cell caremona. The characteristic hmoscoree parture is the displacement of the septime toward the normal side by blumb to gray an red tumor high is superficially ulcerated. Occusionally if the tumor originates from the posterior ethnoid rells, it is demonstrable also by posterior raisoscopy The symptoms—headache, harmorrhage, ocula disturbances, and excling of the external now- ary in different cases, and flooro-copic and roentgamographic examinations do not alway gratis same findings. Biopsy is very important in the diagnosis therapeutically radical operation and subsequent irradiation are dynable but recurrence is the rule

The second porturn of this article is concrued the interesting nationical observations on the development of bone by outcoblists in performed bones, the neoptiuse and methylastic descipenent of bone in the supporting turner the new formation of bone from connectivities carriage, and the development of cart large from gelstimous tusture.

SCHUTTLE (Z)

Schitter E. How May the So-Called "Seriess Accidents in the Irrigation of the Autumn of Highmore Be Avelsed?" (We issues such de sog seblem Zufulle bet der Austenbochtenpechag ermeelen?) //wir / He / Yaw Olersbal?

The anthor desapproves of the use of sharp scedle or troogra-haped instruments for the puncture of the antimo of Hackmore, recommending isstead the dull Siebenmann cannels with which the puncture is undertaken by y of the maiddle sensi mentas. He draws the fo

- t Most of the serious complications occurring in the course of puncture or irrigation of the antrum of Highmore can be traced to the occurrence of air restorant.
- I A smaller number of these are reflex processes of a by the operative trauma in the medulla stocagus, the sympathetic vagus system and the certicum, caming symptoms in the respiratory and correlatory system similar to those occasionally observed in other operative procedures in the alternet of the nose in which are embolism can take apart, and those occurring occasionally as signs of occuse possedure.
- In all of the definitely proved cases of air emtowns up to the present time a sharp matriment was easi for the poncture or irrigation of the attract of lightnore. In regard to the origin of the attract of lightnore in regard to the origin of the attract of lightnore in regard to the origin of the tract of the matter of the same of the same of the same of the the percag the mucoas of the lateral nasal wall or the sattract of lightnore punctured a cin, direct in slates of air resulting.

4 The decurre factor in the development of the ar embolum is the manner in which the puncture

of the antrum of Highmore is done

5 The use of dail, flexible cannule almost completely prevail perforation of the mucosa of the satura of Highmora no case of air embolism after pendiare or unigation with a dull cannuls has y these reported.

6 The puncture of the antrum of Highmore with the Schemmann cannula through the fontanelles through the membranous part of the middle usual nearing or through an accessory opening is no more deficult technically than other procedures

B TEGGERATA (7)

THROAT

Trinder J. H. X-Ray Treatment f Toneillar and Lymphold Tissue. A Otal Rinal end Ler yand 92 xxx, ross

Both lymphatic and embryomic turnes are more tanky destroyed by the X-ray than any other living rate. The totall is made up largely of lymph tissue and the small fibrous torral commonly associated was rheumatism contains lymph follocles, of which so per cent are embryonic tisene and the remainder eagorged with mature lymphocytes Very small does of X ray may be used to promot absorption of the lymphatic element, and will in no way inter ere with any of the surrounding and dracent cells glands From th standpoint of infection, the times of the tonal and the lymph these of the steral and posterior wells of the nasopharynx by the X-ray will relieve the dist rison of the crypta throughout the entire mucous membrane and thus pursots dramage. This is impossible by any other nethed The technique requires 5 m spork gap, a correct of 5 ma s-mm ahimmum filter an skin distance, and three mm tes exposure to each total From five to ten treatments are given

at intervals of one cel. The treatments rerepeated in all cases until members of the homolytic group or the pneumococcus group, or other pathogenic rganisms found present, disappear. A minimum of five treatments is given if no virukent bacteria, he discovered.

Thereten cases of tonaise commoned before and after Thereten cases of tonaise commoned before and after the common common

In barroung the cases over period of six months the subo noted a market reduction in size the greatly hypertrophed tonsis following \(^1\) ray therapy. The tonsis removed first course of configurative treatment showed marked traction behind the pillars rather that a decrease in size from the course of the cou

ment In the

In the author opinion, I ray theraty is wither adjunction of present day methods of treating diseases of the throat but its use is himsel as the tonul is app to become infected after it has been rendered sterile by means of the V ray. The open ton of tonulisticiony remains the method of observation of tonulisticiony remains the method of observations of the control openions proof openior rays and persons who refuse any operat procedure, mentgen ray theretor was of decoded value.

TANCES C. B. ASSESSED. M.D.

Boyd E Observations on Some Throat Conditions in Children Med Frest 923, CKY 50

The thor discusses () the influence of the contraction of the pulstoglosses muscle in the formation of the pendicious and burned types of tonais () moning (3) the influence of defects mass breathing in the production of deformatics f the boses of the f cc, ind (4) affections of the t nails in minute.

Boyd between that the shape I the tonal depends pon the trength of the contraction. The pelatogicarea massic I has stronger the music the more protruding I buried the tonal Tounts of the pead (out type I more easily removed with the patient gaging but the remov 1 I the buried type d made relavation.

Sooning is explained by the assumption that the toppes is related and, with the epiglotts falling bricks rd, pertually it is off the air ay. When the negative pressure in the thorax is sufficient to draw the air through the narrowed opening the air is set in ibration.

The defective growth if the bones of the lace is more of biological problem than the result of nasil battention. Factors of importance are the condition of the general beaith and naturation in early life and the proper development of both the primary and the secondary teeth.

In the abors opinion acute and chronic conditions of the torsuls may occur in misacy and the torsuls should be removed, when discussed, urespective of the age of the child. The physician in charge should always be consulted. O. M. Rorri. M. D.

Babenck, J. W. Observation on the Results of Roentgen Therapy in Chron Tonsillitis. J. Am. H. Air. 9 J. lux 190

Babook report his observations on the results of contents therapy in sine cases of chrosic tomalities above the fathility of depending point his method in dealing with breast indected tomain. If found that recentigen therapy as new ad oct-ted rise cause or of less discontinuous in the new of towards or other implications on many less results in the content of the

with remote symptoms. The findings in earned tomals indicate that they are not in the fire of pathogenic hoster. It is there is no evident increase in concern the man finding to not evident increase in concern the man finding to the control of the pretruption of the crypts. Arther the demonst not the hypertrophe in tymps and there is the posterior wall of the phary not disappear to change in any appreciable was another year subject to create the control of the posterior wall of the phary not disappear to change in any appreciable was another year to the processing the control of the c

time after the roenigen treatment. In coordwood the withor states that until it is more defautely show that discussed touchs and other hymphod touse in the pharynn and nanopharynn can be creducted as efficiently by a less supplement process, reliance must be pisced on surgery.

O M. Rort M.D.

K hn, C F Tonsfliert my and Its Complica-

those Am J S of all arren. The number tremes the mortance of careful pre-sperator examination of the patient in order to discover conclusions that more recognized, might pre-sperator to the removal of the tonoist Several corrections are removal of the tonoist Several corrections are in allustrat the point. The fallers reports are price at allustrat the point. The fallers reports are price to the party may be locking of a food books in the plant party and presented to the products, long before the presentative appropriative appropriative appropriative appropriative appropriative appropriative appropriative appropriative appropriation of the correction appropriation of the correction and positive appropriation of the correction and production and the correction and production of the correction and productions of the correction and the corr

the accessory summer and neurasthems.

I order t discover the presence of such complete the supervisors the presence and complete despressors the operation and complete despressors the operation and complete despressors and in additional careful recording of the history and in additional careful recording of the right.

Figl, F. A. Cysts of the Burns Pharyuges, Laryeyscape 9 3, 2000; 17 The burns pharyuges is small medius peach or

recess coancered with the phary agral local on the upper positions all of the mappharyas. It is attempts a part of the part of the part of the first part of the first part of the first part of the first part of the part agree to part of the part of the part agree to part of the part of the part agree to part of the p

in the cadaver by Luschka in 868 Tormakit. m 1835 attempted to show defralt relation bet een these cysts and sanopharynetal estarch so-called Tornwahlt a disease. These crists rarely become large enough for chinical recognition. They vary in size from Jes multimeters to bout cm in diameter and in y occurr at 3 age I the nesophary agest mirror they appear as ghetcame kemi-pheneal black gray or abgittly vellowed masses has ng broad trachments to the mallime of the upper postersor all and the ult of the nasopharynx They are either undocular or multiocals has a thin limiting membrane are aboutly fluctua t and contain thick viscul mucus or mucopus. The posterior wall is formed by the mocous membr ne over the bunlar process of the occupital bone which is excu ted according to the curv of the cost wall. As rule such tumors do not cause symptoms unless there is an associated inflammatory condition or they are large enough t cause obstruction. It should not be difficult t make diagnosis as the location and appearance of the cyst are characteratic Clinically they re menificant rule only from diagnostic standpoint, man of the cases h wing been found accidentally during the course of routine masophery ngral or detailed postmortem examinations. T crass are reported, one that of man aged 37 years, the other that of man of 5 I both instances the cost as dis-covered during the course of a routing assopher) a geal examination no symptoms referable t the tu mor being present

Berry G. War Surgery of th Larynz, w th Special Reference t. the Work at Cape May Larynposept 0 3 rvm 85

The periodical symptoms of an injuries of the luyum are aphonic, harmon use, of spinors, external hemorrhage dyphagia, emphysema, difficults in moving the seek, and injury of the nearby serves. The more frequent complications are brotchitis, pocusionit, septic-turn mediutimitis, and gas inlection.

The treatment depends upon the nature of the lesson. Palliatin treatment counsists of rest and the use of sections steam inhalations, ad albed medication. Many cases are cured by these procedures.

The first essential is to prevent choking. If palls to reasons do not serve, a trachestomy becomes consumerative. If the case is under close beservation in sportal, trachestomy in y be delayed, but if the places must be transported it should be performed as easily the case in the places are the previous profession of the previous profession of the consumeration in for long person of time careals remains in for long person of time.

Extralaryageal bleeding is controlled by the usual supeal procedures. Intralaryageal bleeding is usually

stops spontaneously

The imphysema takes care of itself after free freathing has been restored and the wound has been opened up. Draphagia due to traumatic s elling desperar as the orderna goes down. If the overplan is a kis been cut, the edges should be mutured and the patient fed for a while through a tube or by retires.

The indirect larvingeal picture should be attuded as early as possible in order that tears of the indicous membrane, ordematous stenoses, and early parally asmay be determined and recorded against later

danger

Of set cases treated at Cape May high trach comes was done in six, and I three of the latter for inchestorny as done latter. In to the tube removed after three weeks, and one fire sex virst. In snother t will be removed soon but at the first must be left im place for some time longer The such patient has not been beard from I over a

la four cases a chronic lary agent atenoars des l spei and required protracted operative treatment.

The vocal results may be classified as follow whater once, four weal, hourse once, if e strong house once, three There were no f talities in the tens.

In the author opinion infection plat or superating part in the curte cases, but in chronic senses the presence of the tracheotomy tube is of pater importance. When a high tracheotomy is due, a space through which no air pauses is established between the tibe below and the cords how the patern to the below and the cords how the patern to the patern to

JAMES C BRASWELL, M D

Junes, A Subcutaneous Avulsion with Oblique Tursion of the Lary nx After Burnal (Subcutaner Mrss sin skiracer Torsion des Kellkoyles auch Verchiettang) Eircke f Larragel Rissel 2, 7

la 96 solder 24) cars old was buried in such were that he as covered by earth up to his mouth his in the standing position. His head was turned had bent to the left, his need, was squeezed and Reportion was possible only with the greatest difficulty. The author saw the patient for the first time four years after the injury. Respiration was then difficult only on rapid walking, on bending dow and when the head was turned. Externally absence of the missuals pad on the right side of the neck and of connection in the centre between the hyo d bone and the edge of the thyroid cartilage was found. Over the termina was protrusions as large as an piple, which proved the belief of the same of the provided of the provided of the protain the provided of the provided of the protain the provided of the provided of the process of the provided of the provided of the process of the provided of the provided of the process of the provided of the provided of the process of the provided of the provided of the protain the provided of the provided of the protain the provided of the provided of the protain the provided of the protain the provided of the provided of the protain the provided of the provided of the provided of the protain the provided of the provided of the provided of the protain the provided of the provided of the provided of the protain the provided of the provided of the provided of the protain the provided of the provided of the provided of the protain the provided of the provided of the provided of the provided of the protain the provided of the provided of the provided of the protain the provided of t

During the burial the right side of the neck was under conside ble pressure from the masser earth living upon t. The right sternocleulomastord muscl was stretched d ruptured with the forms too of a hematoma. I that the techniq of the hypothyroid region and torsion and squeezing were prod ced. With developing tenoms I the larn are,

tempt is mad to ercome the obstruction to espiration in effer manner by drawing the larnar apps of and down and (Gerhardt sawing the norm). The result of this tempt in this case was the vulsion of the thyroblyoid muscles and the upper cords of the thryoid carriff ge, and the sunking of the larnar in its pointon. I torsion down the remain The handra of a sallowing obstone required to the carrier of the displaced larn.

The pressure it is displaced larn.

If (1878.2)

MOUTH

Darling, B. C. Can the Medical and Dental Professions Agree on Any Standardized Treatment f the Focus of Infection? J. Raisel. 9 3, 39

The material presented in this paper has been compiled from about fifty for explicit to question may be considered to the content of the content of these terms are all well know the profession and their replies may be considered a representative of what dentitiate are doing today in the problems presented by oral four of infection in the form of per pacal and powrhous tooditions.

The following questions were asked

What is) our present opinion as to extraction in the case of tooth that shows definite periodical periodical destruction.

b What is your present opinio as to extraction in the case of tooth that shows definit peri

apical raref ction or chronic bacess
22 If ou believe in root canal treatment of

these teeth what method do you recommend

b. What \ raw \ ppearance will differentiate
those is orable for root canal therapy from those

t be extracted

2c What important clinical symptom or guide
other than the X-ray appearance. Il enable you
t tell high teeth will go on t repair and bone

restoratio and which are possible source of fection In the a ther' opinion acut and chronic conditions of the tonsils may occur in minarc, and the tonsils should be remo ed, when the east of the of the age of the child. The physician in churge should all ays be consulted. O II Rorr ii II o

Babenck, J. W. Observation on the Results of Roentgen Therapy in Chronic Tonsillitis J. Am. M. A. 9 y. lxxx 1000

Rabock reports his observations on the realty of content the retry on the case of chrona to seekling to show the fellular of depending upon this method is dealing at the chronic infected tonish. If fourther the content the content that receive the case of the content that the reader may be carely influence and much more taken of the content that the reader may be carely influence and other that the reader may be carely influence and much increased in size during the influence and much increased in size during the influence of the content that the reader demonstrated that the graftlifthrous torsil is equally apt to serv. as focus of infection with remot is graptoms.

The findings in exceed toosis indicate that they are not mode free of pathograms lacters is that there is no evident increase in connective times, did not not of irraphood tissue tack of activity of los germs and centers, or to admiss of the crypts. There they are the positions will of the phany as dampear or change in any appreciable w. y. and they are subject to consoul inflammations sentiar it those preceding not type therapy. Generally supposes modeling the phany and they are subject to consoul inflammations sentiar it though preceding not type therapy. Generally supposes modeling the beart and policies, has not been relieved in these cases by recontings therapy in the second of them is the part of them in the part of the pa

In conclusion the author states that until it is more definitely above that diseased tomais not other hymbood tasses on the pharyn, and nasophare as can be eradicated as efficiently by less unpleasant process, reliance must be placed on surgery.

OM Port MD

Kubu, C. F. Tonsillectomy and Its Complications 4 = J Sert + 3 serve,

The other stresses the importance of careful pre-operative assimutation of the patients in ordinate discover conditions which, unrecommend, might jut need to server or even fatal complications following or draing the removal of the tonsile Several care reports are given to luminate this point. The following complications are mentioned harmonizing, the following of modulations are mentioned harmonizing, the following of food holes in the pharyna: tatus lymphaticus, feetle heart, concedent supports pendicutal insign aboces, to beruchose, spihalis lymphosaircosia of the cervical glande, supportations of the accessory amones, and decreathering.

In order to discover the persence of such our placetions the patient should be taken to the hospital the day persons to the operation and complete his size and honoratory stamm thous should be made in ddition to careful recording of the history of the property of the pr

Figl. F. A. Oyata of the Burna Phatyagen, Laryage, at pt., 923, 22203, 37

The burns phaymages is a small makina roach or recess connected: 4th the phaymages local on the support posterior. If the suspension is nature is still sudmittle but his been assembly state to be (1) the remains of Ratike's scool, 10 cm, 10

Cysts of the pharymenal horses one first observed in the cada or by Louchka in 1868. Toraxallt in 88 c. ttempted t show definite relation between these cysts and nasopharynaeal extents. so-called Torawaldt a diverse These custs rarely become large enough for chascal recognition. They vary size from few millimeters to about con m diameter and m y occur at 3 age In the maschhar) gral mirror they ppear as glatering hemseberical blank gray or slightly vellowed masses having broad trackments to the midbot of the pper posterior wall and the ault of the areaphan x They re eather naulocular or main ocular ha a thin braiting membrane are shightly fluctuant and contain thick viscid muces or more nue. The posterior wall is formed by the macous membrane over the bandar process of the occupital bone buch is excavated according to the curve of the cost all 1 rule such tumors do set came symptoms unless there is an associated inflammaton condition or they re large enough to came obstruction. It should not be difficult to make dragnosis as the location and appearance of the cyst are haracteristic Chescully they re seguificant as a rule only from a charmostic standpoint, man) of the cases ha mg been found accidentally during the course of routine nasophary neval or detailed postmortem evanshutions T o cases are reported. one th t of man aged 17 years, the other that of In both matances the cast was don man of 5 covered during the course of routine assophery ngeal examination no symptoms referable to the tu mor being present

Berry G. War Surgery of the Laryns, with Special Reference t the Work, t Cape May Larvecourse 0 1 12228 St.

The periodial symptoms of ar injuries of the lary or are phonia hieropetus, drephore, external hieropetus, drephore, external hieropetus, officially in moving the neck, and injury of the nerby neck to the move frequent complications are bronches, poeumonia, septicemi mediastinata, and gas infection.

The treatment depends upon the nature of the le-nor Pallitiv treatment consists of rest and the use of sedat vea, steam inhalations, ind affied medication. Many cases he cured by these procedures

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certain.

Do you believe that where teeth show bone restoration more or less complete in two or three years this indicates that the teeth are no longer a possible source of infection? Why?

42 Is there any working basis in your locality? If so what is at? 4b Does each dentist work tout for himself on

the basis of root canal treatment, if possible with-

bolding extraction? t. How would you define or standardize the dental tutudo in the matter so that the dental

and metical professions can understand each other? 6 In py orthora what amount of alveolar destruc-

tion industry extraction?

28 Is it sounder for the diagnostic energy for the verses dentist to consult with a methcal or dental roenteenologist or to do all his own X ray work and interpretation

7b Will the public as well as the professions be benefited by sharing of the responsibility by consultation?

The following is summary of the replies

14 Fulty-nix per cent extract 1 per cent treat first 34 per cent save

ib Forty-eight per cent extract 40 per cent treat first, 1 per cent se

for classification Seventy six per cent use the \-ray for dif-

ferential diagnosis 24 per cent do not depend on the

Seventy three per cent use chalcal symp-20 toms 37 per cent do not depend on chancal symp toms

There is too great divergence of methods

3 Thirty-eight per cent believe injection remaim after bone restoration 13 per cent are wadecided, 40 per cent believe infection is cured.

There is no agreed working bases Fulty-four per cent of the dentists work out 4b each case for themselves 13 per cent ha a a shight tendency t an agreed practice 33 per centure on

The majority believe at is impossible to stand ardise the dental attitude at the present time There is no definite standard as to amount of alreolar destruction reducates extraction l'orty-two per cent believe the dentist

should do his own 1-ray work 55 per crat lawer consultation with rosatesnologist. yb. Twenty four per cent are travilling to con-

sult with members of the medical profession, 76 per cent are illing to consult \$ J Serors, MD

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